

SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
			ISDYFERRVEQPLYGLDGSAAKEATEEQSALPTLMSVMLAKPRL DTEQLAQRGAGLCFTFVSAQQNSPSSSTGSGNTEHSCSSQKQISI QHRQT\QSDLTIEKISALENSKNSDLEKKEGRIDLLRANCDLR ROI\DEQQKMLEKYK\ERLNRCDNEPRNFLIEKSKQEKMACRD KSMQDRRLRLGHFTTVRHGASFTQWTDGYAFQNLIKQQRINSQ REEIERQRKMLAKRKPPAMGQAPPATNEQKQKSKTNGAENETL TLAEVHEQEIEIFKLRLGHLKKEAEIQALERLRLVRNLHIREL KRIHNEDNSQFKDHPTLNDRYLLHLLGRGGFSEVYKAFDLTEQ RYVAVKIHQLNKNWRDEKKNYHKKHACREYRIHKELDHPRIVKL YDYFSLDTSFCTVLEYCEGNDLDFYLLKQHLMSKEARSIMQ IVNALKYLNEIKPPIHYDLKPGNILLVNGTACGEIKITDFGLS KIMDDDSYNSVDGMELTSGAGTYWYLPPECFVVGKEPPKISNK VDVWSVGVIFYQCLYGRKPPFGHNQSQDILQENTILKATEVQFP PKPVVTPEAKAFIRRCCLAYRKEDRIDVQQLACDPYLLPHIRKSV STSSPAGAAIASTSGASNSSSN
5996	1612	981	DQOACLLGLMLTLEFGILEFDPFSWIGSWTQR/SWVSWSRSPGCE LFSIVVFGSIVNEGYNLSASEGEEFCIYNRNPNACSYGVAVGVL AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVS GEPHPAA FWAFLWFTGDS CYL\ANQWQVSKPKDNPLNEGTDASGRPSPPFS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAPQ
5997	1612	981	DQOACLLGLMLTLEFGILEFDPFSWIGSWTQR/SWVSWSRSPGCE LFSIVVFGSIVNEGYNLSASEGEEFCIYNRNPNACSYGVAVGVL AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVS GEPHPAA FWAFLWFTGDS CYL\ANQWQVSKPKDNPLNEGTDASGRPSPPFS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAPQ
5998	1612	981	DQOACLLGLMLTLEFGILEFDPFSWIGSWTQR/SWVSWSRSPGCE LFSIVVFGSIVNEGYNLSASEGEEFCIYNRNPNACSYGVAVGVL AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVS GEPHPAA FWAFLWFTGDS CYL\ANQWQVSKPKDNPLNEGTDASGRPSPPFS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAPQ
5999	2	1790	RPPMEKARRGGDGVPRGVLHIVVVGFFHKKGCQVEFSYPLIP GDGHSHTLPPEWKYLPFLALPDGAHNYQEDTVFFHLPFRNGNG ATVFGISCYR\QIEAKALKVRQADITRETQKSVCLSKLPLYG LLQAKLQLI\THAYFEKDFSQISILKELYEHMNSSLGASLEGS QVYLGLSPRDLVLHFRHKLILFKLILLEKKLVFYISPVNKLGV ALMTVLSLFPGMIEHGLSDCSQYRPRKMSDEGGLQESNPCADD FVASTADVSHNTLGTIRKVMAGNHGEDAAMKTEELFQVEDSS KGQEPNDTNQYLPKPPSRPSPDSSES DWETLDPVLEDPNLKERE QLGSDQTNLFFKDSVPSESLPITVQPOANTGQVVLIPGLISGLE EDQYGMPLAIFTKGYLCLPYMALQQHLLSDVTVRGFVAGATNI LFRQKHLSDAIVEVEEALIQIHDPKLKLLNPTTADLRFADLV VRHVTENRDUVFLDGTGWEGGDEWIRAQFAVYIHALLAATLQLV LFRIVNVAKKIGNVMVTT\SRNVVQTGK\AVGQSVGGAFS\SAK TA\MSSWLSLTFTTSTSQSLTEPPDEKP
6000	101	1561	TEPCRTAENCTATMSENKNSLESSLRQLKCHFTWNLMEGENSL DDFEDKVYRTEFQNRFEKATMCNLLAYLKHKGQNEAALECLR KABELIQEHADQAEIRSLVTWGNVAVVYHMGRLSDVQIYVDK VKHCEKFSSPYRIESPEDCEEGWTRLCGGGNQNERAKVCFEK ALEKKPKNPEFTSGLAIASYRLDNWPPSQNAIDPLRQAIRLNDP NQYLKVLALALKLNMREEEGEEGEGEK\LVBEALEKAPG\VTDV LRSAA\KFYRGKDEPKAIELLKALEYIP\NNAYLHCQIGCCY RAKVFQVMNLRNGMYGKRKLELIGHAVHLKKADEANDNLFR VCSILASLHALADQYEDAEYFYQKEFSKELTPVAKQLLHLRYGN FQYQMKCEDKAIHHFIEGVKINQKSREKMKDKLQKIAKMRL SKNGADSEALHVLAFLOELNEKMQQADEDSERGLESGSLIPAS SWNGE
6001	176	1038	APAHSPSRGHRHETHIHTPRHTPRCTMAESHLOSSLITASQPFET WLHFDADGSGYLEGKELQNLQELQARKKAGLELSPMKTFVD QYQQRDDGKIGIVELAHVLPTEENFLLFRCCQLKSCE\EFMKT WRKYDTHSGFIETELKNFLKDLLEKANKTVDDTKLAEYTDLM

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			LKLFDSNNNDGKLELTEMARLLPVQENFLPKPGIKMCGKEFNKA FELYDQDNGYIDENELDALLKDLCEKNKQDLINNITTYKNI MALSDGGKLYRTDLALILCAGDN
6002	977	81	LAPFGGGLHIPPTPLSHSRPPPSHHAPHPSPPLPLPPADLHPHS SMAQRSDLLLEDCQLTRDRVVVSHDENLCRQSGLNDRDVGSLDF EDLPLYKEKLEVYFSPGFHAGSDRRMVRLDLFQRFPTPTMSV EIKGKNEELIREQ/VLVRRYDRNEITIWASEKSSVMKKCKAANP EMPLSFTISRGFVLLSYLGLLPPFPIPEKFFCFPLPNIINRT YPPFSCSLNQLLAVVSKWLMRKSLIRHLERGVQVVFCLNE ESDFAAFSVGATGVITDPTALRHLYDNHGAARTS
6003	140	4098	GKLRFRGMRLICKRICDYKSFDDDEESVDGNRPSSAASAFKVP APKTSGNPANSARKPGSAGGPKVGAGASKEGGAGVDEDDFIKA FTDVPSIQIYSSRELEETLNKIREILSDDKHWDQRANALKKIR SLLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVREACITVA HLSTVLGNKFDHGAELVPTLFNLVPNSAKVMATSGCAAIRFII RHTHVPRLIPLITSNCTSKSVVRRRSFEFLDLLQEWQTHSLE RHA AVL VETIKKGIHDADAERVEARKTYMGLRNHFPGEAETLY NSLEPSYQKSLQTYLKSSGSVASLPQSDRSSSSSQESLNRPFSS KNSTANPSTVAGRVSGSSKASSLPGSLQRSRSDIDVNAAGAK AHHAAGQSVRSRGLGAGALNAGSYASLEDTSDKLDGTASEDGRV RAKLSAPLAGMGNADSRGRSRTKMVSQSQPGSRSGSPGRVLT TTALSTVSSGVQVRVLSASAQKRSKIPRSQGCSEASPSRLSV ARSSRI PRPSVSQGCSEASRESSRDTSPVRSFQPLASRHHRS TGALYAPEVYGASGPGYGISQSSRLSSSVSAMRVLTGSDVERA VADALLGDIRTKKKPARRRYESYGMHSDDDANSASSACRS YSSRNGSIPTYMRQT\EDV\AEVLNRCASSNWSERKEGLLGLQN LLKNQRTLSRVELKRLCEIFTRMFADPHGKRVFSMFLETLVDPI QVHKDDLQDWLFLVLLTQLLKKMGADLLGSVQAKVQKALDVTRES FPNDLQFNILMRFTVDQTQTPSLKVKVAILKYIETLAKQMDPGD FINSSETRLAVSRVITWTTEPKSSDVRKAAQSVLISLFEINTPE FTMLL GALPKTFQDGATKLLHNHLRNTGNGTQSSMGSPTRPTP RSPANWSSPLTSPNTSQTLSPAFYDPTENMNSEDIYSSLRG VTEATQNFPSFRSQEDMNEPLKRDSSKDDGDSMCGGPG\MSDPRA GGDATDSSQAT\DNKASLLHSMPTHSSPRSRDYNPNYSDSIS FPNKALKEAMFDDADQFPDDLSDHSDLVARELLKELSNHNER VERKIALYELMKLTQBSFSVWDEHFKTILLLETLGDKET IRALALKVLEIRLHQPARFKNYAELTVMKTLEAHKDPHEVVR SAEEAASV\LATSI\SPQCIKVLCP IIQTADYPINLAAIKMQT KVIERVSKETLNLLELPEIMPLIQGYDNSESSVRKACVFLVAV HAVIGDELKPHLSQLTGSKMKLLNLYIKRAQTGSGGADPTDVS GQS
6004	140	4098	GKLRFRGMRLICKRICDYKSFDDDEESVDGNRPSSAASAFKVP APKTSGNPANSARKPGSAGGPKVGAGASKEGGAGVDEDDFIKA FTDVPSIQIYSSRELEETLNKIREILSDDKHWDQRANALKKIR SLLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVREACITVA HLSTVLGNKFDHGAELVPTLFNLVPNSAKVMATSGCAAIRFII RHTHVPRLIPLITSNCTSKSVVRRRSFEFLDLLQEWQTHSLE RHA AVL VETIKKGIHDADAERVEARKTYMGLRNHFPGEAETLY NSLEPSYQKSLQTYLKSSGSVASLPQSDRSSSSSQESLNRPFSS KNSTANPSTVAGRVSGSSKASSLPGSLQRSRSDIDVNAAGAK AHHAAGQSVRSRGLGAGALNAGSYASLEDTSDKLDGTASEDGRV RAKLSAPLAGMGNADSRGRSRTKMVSQSQPGSRSGSPGRVLT TTALSTVSSGVQVRVLSASAQKRSKIPRSQGCSEASPSRLSV ARSSRI PRPSVSQGCSEASRESSRDTSPVRSFQPLASRHHRS TGALYAPEVYGASGPGYGISQSSRLSSSVSAMRVLTGSDVERA VADALLGDIRTKKKPARRRYESYGMHSDDDANSASSACRS YSSRNGSIPTYMRQT\EDV\AEVLNRCASSNWSERKEGLLGLQN LLKNQRTLSRVELKRLCEIFTRMFADPHGKRVFSMFLETLVDPI QVHKDDLQDWLFLVLLTQLLKKMGADLLGSVQAKVQKALDVTRES FPNDLQFNILMRFTVDQTQTPSLKVKVAILKYIETLAKQMDPGD FINSSETRLAVSRVITWTTEPKSSDVRKAAQSVLISLFEINTPE

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			FTMLLGALPKTFQDQATKLLHNLRLNTGNGTQSSMGSPLTRPTP RSPANWSSPLTSPTNTSQNTLSPSAFDYDTENMNSEDIYSSLRG VTEAIQNFSSFRSQEDMNEPLKRDSSKDDGDSMCGGPG\MSDFRA GGDATDSSQTAL\DNKASLLHSMPTHTSSPRSRDYNPNYSDSIS PFNKSALEAMFDDADQFPDDLSLDHSDLVAEELLKELSNHNER VEERKIALYELMKLTQEESSFSVWDEHFKTILLLLLETLGDKKEPT IRALALKVLREILRHQPARFKNYAELTVMKTL\EAHKDPHKEVVR SAEEAASV\LATSI\SPEQCIKVLCPIIQTADYPINLAAIKMQT KVIERSKETLNLILLPEIMPGLIQGYDNSESSVRKACVFCFLVAV HAVIGDELKPHLSQLTGSKMKLLNLYIKRAQTGSGGADPTTDS GQS
6005	133	5955	RSSGRRQEQQLGQFPGRERKGMASGLGSPSPCSAGSEEDMDALL NNSLPPPPHENEEDPEEDLSEETETPKLKKKKPKKPRDPKIPKS KRQKERMMLLCRLQDSSGEGPEFVEEEVEALRSDESGSDYTP GKKKKKKLGPKEKKSXSKRKEEEEDDDDDDSKEPKSSAQLL EDWGMEDIDHVFSEEDYRTLTNYKAFSQFVRPLIAKNPKIAVS KMMMLGAKWREFSTNNPFGSSGASVAAAAAVALVESMVTAT TEVAPPPPPVEVPYKAKTKEGKGNARRKPKGSPRVDAKKPK PKKVAPLKI KLGGFGSKRRSSSEDDDLVDSEDFDDASINSYSV SDGSTSRSSRSRKKLRTTKKKKKGEEVTAVDGYETDHQDYCEV CQQGGEIILCDTCPRAYHMCVCLDPDMEKAPGKWSCPHCEKEGI QWEAKENDSEGEIILEEVGGDLSEEDDHMEFCRVCKDGGELL CDTCPSYHIIHCLNPLPEIPNGEWLCPRCTCPALKGKVQKILI WKWGQPPSPPTVPVRPPDADPNTSPSPKPLEGRPERQFFVKWQMS YWHCSWVSELQLELHC\QVMFRNYQRKNDMEPPSGDFGGDEEK S\RRKKNKDPKFAEMEERFYRYGKPEW\MMIHRILNHSVDKKG HVHYLIKWRDLPYDQASWESEDEI QDYDLFKQSYWNHRELMRG EBGRPGKCKLKVKLRLKLERPETPTVDPTVKYERQPEYLDATGG TLHPYQMEGLNWLRFSAQCTDTILADEMGLKTVQTAFLYSL YKEGHSKGPFLVSAPLSTIIN\WEREFEMWAPDMYV\VTYVGD DSRAIIRENEFS\FEDNAIRGGKKASRMKKEASVKFHVLLTSYE LITIDMAILGSIWACLIVDEAHLKNNQSKFFRVNLGYSLOHK LLLTGTPLQNNLEELFHLNFLTPTFRFHNLEGFLEEFADIAKED QKKLHDMLG\PHMLRLKADVFKNMPSKTELIV\RVLSLPM\Q KKYYK\YILHSKFLKALN\ARGGGNQVSLNVMDLKKCNHYP LFPVAAMEAPKMPNGMYDGSALIRASGKLLQLKMLKNLKEGGH RVLI FSQMTKMLDLEDFLEHEGYKYERIDGGITGNMRQEAIDR FNAPGAQQCFLLSTRAGGLGINLATADTVIYDSWNPNDIQ AFSRAHRIGQNKVMIYRFVTRASVEERITQVAKKMMMLTHLV RPGLSKTGSMKQELDDILKFGTEELFKDEATDGGGDNKEGED SSVIHYDDKAIERLLDRNQDETEDELQGMNEYLSSFKVAQYVV REEEMGEEEEVEREIIKQEEVDPDYWEKLLRHHEQQQEDLAR NLGKGKRIKQVNYNDGSSQEDRDWQDDQSDNQSDYSVASEEGDE DFDERSEAPRRPSRKGLRNDKDKPLPPLARVGGNIEVLGFNAR QRKAFILNAIMRYGMPQDAFTTQWLVRDLRGKSEKFKAYVSLF MRHLCEPGADGAETFADGVPREGLSRQHVLTRIGVMSLIRKKVQ EFEHVNGRWSMPELAEVEENKKMSQPGSPSPKTPPTPGDTQP NTPAPVPPAEDGIKIEENSLKEEESIEGEKEVKSTAPETAICT QAPAPASEDEKVVEPPEGEKVEKAEVKERTEEPMETEPKGG AADVEKVEEKSAIDLTPIVVEDKEEKEEKEEKEVMLQNGETPK DLNDEKQKKNIKQRFMFNIADGGFTLHSLWQNEERAATVTKKT YEIWHRRHDYWLLAGIINHGYARWQDIQNDPRYAILNPPFKGEM NRGNFLEIKNKFLARRFKLLEQALVIEEQLRRAAYLNMSSEDPH PSMALNTRFAEVECLAESHQHLSEKSMAGNKPANAVLHKVLKQL EELLSDMKADVTRLPATIARI PPVAVRLQMSERNILSRANRAP EFTPQQVAQQQ
6006	1	965	DNDFLRNTVHRHEPPVTAEPRLLAENEDVVVVVDKPSIPVPHC GRFRHNTVIFILGKEHQLKELHPLHRLDRLTSGVLMFAKTAAS ERIHEQVRDRQLEKEYVCRVEGEFPTTEVTCKEPILVVSYKGV CRVDPGRGKPCETVFQRLSYNGQSSVVRCPRLTGRTHQIRVHLQF LGHPILNDPIYNSVAVGFSRGRGGYIPKTNEELLRLDLVAHQAK

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			QSLDVLDLCEGDLSPGLTDTAPSSSELGKDDLEELAAAA\QKME EVAEAAAPQELDTIALASEKAVETDVMNQ\RQT\TLCRVPAGATG SLAPRPCDVPTCPTL
6007	3	2351	HELQVEYVFTDKTGTLTENEMQFRECSINGMKYQEINGRLVPE GPTPDSSEGNLSYLSLNLNLSHLTSSSFRTSPENETELIK EHDLPFKAVSLCHTVQINNVTCTDCTGDGPWQSNLAPSQLEYYS SPDEKALVEAAARIGIVFIGNSEETMEVKTGLKLERYLHLILE FDSRRRMSVIVQAPSGEKLPAKGAESSILPKCIGGEIEKTRI HVDEFALKGLRTLCIAYRKFTSKEYEEDKRIFEARTALQQR\B EKLAADFQFIEKDLILLGATAVEDRLQDKVRETTEALRMAGIKV WVLTDGKHETAVSVLSLSCGHFRTMNIELINQKSDSECAEQLR QLARRITEDHVIQHGLVVDGTSLSLALREHEKLFMEVCRNCSAV LCCRMAPLQKAKVIRLIKISPEKPI TLAVGDGANDVSMIQEAHV GIGIMGKEGRQAARNSDYAIARFKFLSKLLFVGHGFYIRIATL VQYFFYKNCVCFITPQFLYQFYCLFSQQTLYDSVYLTLY\NICFT SLPILYISLLEQHVDPHVLQNKPTLYRDISKNRLLSIKTFLYWT ILGFSAFIPFFGSYLLIGKDTSLLGNGQMFGNWTFTGLVFTVM VITVTVMALETHFWTWINHLVTWGSIIFYFVSLFYGGILWPF LGSQNMVFFVIQLLSSGSWFAIILMVVTCFLFDI IKKVFDRHL HPTSTEAQLTETNAGIKCLDSMCCFPEGEACASVGRMLERVI GRCSPTHISRSWSASDPFYTNDRSILTLSTMDSSTC
6008	4554	1089	AGVRRAGARRGPGRALFAGATAVPPPSARRRRRCFAPEHAGPAR ASRPQSETMFQLPVNMLGSLRKARKTVKKILSDIGLEYCKEHE DKQFEPNDFYLNKTTWEDVGLWDPSTLTKNQDYRTKPFCCSACP FSSKFFSAYKSHFRNVHSEDFENRILLNCPYCTFNADKKLTETH IKIFHAPNASAPSSSLSTFKDKNKNDGLKPKQADSVEQAVYYCK KCTYRDPLEYIVRKHIYREHFQHVAAPIAKAGEKSLNGAVPLG SNARESSIHCKRCLFMPKSYEALVQHVIEDHERIGYQVTAMIG HINVVVFRSKPLMLIAPKPKQDKKSMGLPPRIGSLASGNV\RLSP SQQMVNRLSIPKPNLNTGVNMSSVHLQNNYGVKSVGGYVS GQSMRLGLGGAAPVSIPOQSQSVKQLLPSGNGRSYGLGSEQRSSQ APARYSLQSANASSLSGQLKSPSLSQSQASRVLGQSSSKPAAA ATGPPPGNTSSQKWKICTICNELFPENYVSVHFEKEHKAEPV AVANYIMKIHNFSTSKCLYCNRYLPTDTLLNHMLIHGLSCPYCRS TFNDVEKMAAHMRMVHIDEEMGPKTDSTLSFDLTQQGSHTNIH LLVTYTNLRDAPAESVAYHAQNNPPVPPKQPKVQEKADIPVKS SPQAAVPYKKDVGKTLCPCLCFSILKGPISDALAHHLRERHQVIO TVHPVEKKLYTKCIHCLGVYTSNMTASTITLHLVHCRGVGKTQN GQDKTNAPSRNLNQSPLAPVKRTYEQMEFLLKKRKLDDSDSP SFFEEKPEEPVVLALDPKGH\EDDSYEARKSFLTKYFT\KQPY TRREIEKLAASLWV\WK\SDIASHFSNKRKKCVRDCEKYKPGVL LGFNMKELNKVKHENDFPAEGLFENHDEKDSRVNASKTADKKLN LGKEDDSSSDSFENLEESNESGSPFDPVFEVEPKISNDNPFEH VLKVIPEDASESEKLDQKEDGSKYETIHLTEFTKLMHNASDS EVDQDDVVEWKDGASPSSESGPGSQVSDFEDNTCEMKPGTWSD SSQSEDARSSKPAKKKATMQGDRQLKWKNSYGVKVEGFWSKD QSQWKNASENDERLSNPQIEWQNSTIDSEDEGEQFDNMTDGAEP MHGSLAGVILSSQQA
6009	4272	1534	CHGLQHLTPFRENLNLSLQG*EPH*AA*QAVRSEKKSIC*GSPSC HLVLGLVLPVARQSSHSAGPAQSAFR*GTGSGTPKAAEQSGYW EAYTLGHQHNMFPIQRPPLVMKGRIMCGKCEK*VSDSVTG RAVAGEQASQRRTVFTAGGGEC LGAKSVRASVFTGNQPGVMGLL NGKRGCCFBSGYLFGFIVIGKIQSLEAKVPLPVNGQTGERASPG NCRIHIVDAVC*SEHH*DHFLAAAFLENSTIIS*VAPGSWQDHA VLQKEVQASVRCRGFESVDTAPAGFWAHSPPLQGEPTTTSVSL FVLAPQDGEVFPFVEGQLVTVLGLVVPQSI RHTFVHHTQLFLHP I*KL GALDVAFHLHLLTVCCSFFNAVY*GKNGGTTLHQLFAEVN AVTRGSAVQRRPSITISSIHVDTKIQQELHDMVAGADGVVQWG DPFVVLGAGIFHLIDDELHQIELSFQRRV*EQCGVKPDSQVVP RPLRVGLLQVGPLVRGGRRVAGRGKRCWRDLFFPWRWGLSHRT RDLLRGGDRGHVVVIVLCRLGSLVGGGLTDELLWFGR*LIIG

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			I**RGRLSGEWGCGLGRGELFQVSIIGTGVSIHVIGQGDHEVLGG AGLVERGALHATGQGV EALVQQLLDVGPAGALGLCDGAALFQGP GRVQGLPAEGLQVCITLVAQWRMHDGRELGGAEWPQALHGAAL CGVGAILLKALSQYFLKGG*RLWCARGQ*PVKKRQRRWRG*TR R*NGLTTHCFN*LI*GAVCCRLVILRWCGLLEVHGVYGT*IHCL GSFPGRLWP*PFISQERPNGHCQWFRFLAVPSWKCRRSRWRVVG WTRYGNPLLL*GAWLGGACGGQGGGFLSTWQACTGPGQAALF LPPFQGACRPRTQRCRTWVCPIAWRQLLAYTRD
6010	1	3533	IMPCGSSRLRGCTHPNEFVSDLSYFDCIESVMENSKVLGESM AGISQNAKTGDLPAFGCECVGIASKALCSLTEAAQAAYLVGIFD PNSQAGHQGLVDP IQFARANQAIQMACQNLVDPGSSPSQVLSAA TIVAKHTSALCNACRIASSKTANPVAKRHFVQSAKEVANSTANL VKTIKALDGDSEDNRNKCRITAPLIEAVENLTAFASNPEFVS IPAISSSEGSQAQEPILVSAKPMLESSSYLIRTSRLAINPKDP PTWSVLAGHSHTVSDSIKSLITSIRDKAPGQRECDYSIDGINRC IRDIEQASLAASVQSLATRDDISVEALQEQLTSVVQEIIGHLIDP IATAARGEAAQLGHKGTQLASYFEPLILAAGVGVASKILDHQQQM TVLDQTKTLAESALQMLYAAKEGGGNPKAQHTHDAITEAAQLMK EAVDDIMVTINFAASEVGLVGMVDAIAEAMSKLDEGTPPEPKG TFVDYQTTVVKYSAIAVTAQEMMTKSVTNPEELGGLASQMTSD YGHAFQGGMAAATAEPEEIGFQIRTRVQDLGHGCIPLVQKAG\ ALQVCPTDSYTKRELIECARAVTEKVSLLVLSALQAGNKGTOACI TAATAVSGIADLDTTIFATAGTLNAENSETFADHRENILKTA KALVEDTKLVSGAASSTPKLAQAQSSAATITQLAEVVKLGAA SLGSDDPETQVVLINAIKDVAKALSDLSATKGAASKPVDDPSM YOLKGAAMVMTNVTSLKTKVAVEDEATRGTRALEATIEICIQ ELTVFQSKDVPEKTSPPESIRMTKGITMATAKAVAAGNSCRQE DVIATANLSRKAVSDMLTACKQASPHPDVSDVTRALRFGTEC TLGYLDLLEHVLVILQKPTPELKQQLAAAFSKRVAGAVTELIQAA EAMKGTWVDPEDPTVIAETELLGAAASIEAAKKLEQLKPRAK PKQADETLDFEEQILEAAKSIAAATSALVKSASAAQRELVAQKQ VGSIPANAADDGQWSQGLISAARMVAAATSSLC EAANASVQGH SEBKLISSAKQVAASTAQLLVACKVKADQDSEAMRRLQAAGNAV KRASDNLVRAAQKAAFGKADDDVVVKTKFVGGIAQITAAQEEM LKKERELEEARKKLAQIRQQQYKFLPTELREDEG
6011	446	1835	LLQPAMRKSPGLSDCLWAWILLSTLTGRSYGQPSLQDELKDNT TVFTRILDRLLDGYDNRLRPLGERVTEVKTDIFVTSFGPVSVDH DMEYITIDVFFRQSWKDERLKFKGPMTVLRLNLMASKIWTDPDF FHNGKKSVAHNMTMPNKLRLITEDGTLTYMRLTVR\AECPMF GRDFPM\D\AHACPLKFGSYAYTRAEVVYEWTRPARSVVVAED GSRNLQYDLLGQTVDSGIVQSSSTGEYVVMTHFLKRRKIGYFVI QTYLPCIMTVILSQVSFWLNRESVPARTVFGVTTVLTMTTSLIS ARNSLPKVAYATAMDWFIACVYAFVFSALIEFATVNYFTKRGYA WDGKSVVPEKPKVKDPLIKKNNTYAPTATSYTPNLARGDPGLA TIAKSATIEPKVKPETKPPPEPKKTFNSVSKIDRLSRIAPPLLF GIFNLVYATYLNREPQLKAPTPO
6012	351	5013	PAELFQSFAIWHKELYDWRIGPWNQCQPVISKSLKPLECIRGE EGIQVREIACIQKDKDIPAEDIICEYFEPKPLLEQAACLIPOQD CIVSEFSAWSECKTCGSGLQHRTRHVVAAPPQFGSGCPNLTEF QVCQSSPCEAEELRYSLVHGPWSTCSMPHSRQVRQARRRGKNKE REKDRSGVKDPEARELIKKKRNRNRQNRQENKYWDIQIGYQTR EVMCINKTGKAADLSFCQKEKLPMTFQSCVITKECQVSEWSEWS PCSKTCHDMVSPAGTRVTRTRIRQFPISGEKECEPEFEEKEPCLS QGDGVPCATYGWRTTEWTECRVDPILLSQDQKRRGNQALCGGG IQTREVVYCVQANENLLSQLSTHKNKEASKPMDLKLCTGPIPNNT QLCHIPCPTCEVSPWSAWGPCTYENCNDQGGKKGFKLRKRIT NEPTGGSGVTGNCPHLLAIPCEEPACYDNKAVRLGDCPEPDNG ECGPGTQVQEVVVCINSDEGEVDRQLCRDAIFPIPVACDAPCPKD CVLSTWSTWSSCSHTCSGKTTGKQIRARSILAYAGEGGIRCP NSSALQEVRSNEHPCTVYHWQTGPWGQCIEDTSVSSFNNTTTW NGEASCSVMQTRKVICVRVNVGVQVGPKKCPESLRPETVRPCLL

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			<p> PCKKDCIVTPYSDWTSCPS\SCKEGDSSIRKQSRHRVIIQLPAN GGRDCTDPLYEEKACEAPQACQSYRW\KTHKW\HRCQ\LVP\WS VQQDSP\GAQEGCGPGRQARAITCRKQDGGQAGIHECLQYAGPV PALTOACQIPCDQDCLTSWSKFSSCNGDCGAVRTRKRTLVGKS KKKEKCKNSHLYPLIETQYCPCKYNAQPVGNWSDCILPEGKVE VLLGMKVQGDICEGQGYRYQAMACYDQNGRLVETSRCSNHHGYI EEACII PCPSDCKLSEWSNWSRCSKSGSGVKVRSKWLREKPN GGRPCPKLDHVNQAQVYEVVPCSDCNQYLWVTEPWSICKVTFV NMRENCGEVQTRKVRMONTADGPEHVEDYLCDEEMPLGSR VCKLPCEPCVISEWGPWTQCVLPCNQSSFRQRSADPIRQPADE GRSCPNAVEKEPCNLNKNKYHYDYNVTDWSTCQLSEKAVCGNGI KTRMLDCVRS DGKSVDLKYCEALGLEKNWQMTSCMVECPVNCQ LSDWSPWSECSQTCGLTGKMMRRRTVTQPFQDGRPCPSLMDQS KPCPVKPCYRWQYQWSPQCVQEAQCGEGTRTRNISCVVSDGSA DDFSXVVDREFCADIBLIIDGNKNMVLBESCSQPCPGDCYLKDW SSWSLCQLTCVNGEDLGFGGIQVRSRPVIIQELNQHLCPEQML ETKSCYDQCYEYKMMASAWKSSRTVWCQRSDGINVTGGCLVM SQPDADRSCNPPCSQPHSYCSETKTCHCEGYTEVMSNSNTLEQ CTLIPVVVLPMTMEDKRGDVKTSRAVHPTQSSNPAGRGRTWFLQ PFGPDGRLKTWVYGVAAGAFVLLIFIVSMIYLACKPKPKPQRRQ NNRLKPLTLAYDGDADM </p>
6013	1161	710	<p> GAFIAGVFVQPVLI RYPNSLDTTSWANRGPGVLKVLWLTASQPC SIYDVEFLPVYHPSPEESRDPTLYANNVQRVMAQALGIPATECE FVGS LPVIVVGRLLKVALEPQL/WGTGKSASEGWAVRWLCGRWGR ARPESNDQPGRVCAATAL </p>
6014	2857	613	<p> EAVAGGMEKSRMNL PKGPDTL CDFDKDEFMKEDFDVDFVSDCRK RVQLEELRDDLELYVKLLKTAMVELINKOYADF\VNLS TNLVGM DKALNQLSVPLGQLREEVLSLRSSVSSEIRAVDERMSKQEDIRK KMCVLRLLIQVIRSVEKIEKILNSQSSKETSALAEASSPLLTGQI LERATEFNQLQFHACQSK\GMPLLDKVRPRIAGITAMLQQSLE GLLLEGLQTSDDVDIIRHCLRTYATIDKTRDAEALVGQVLVKPYI DEVIIIEQFVESHNPGLQVMYKLEFVPHHCRLLEVTGGAISS EKGNTPVPGYDFLVNSVWPQIVQGLEEKLP SLFNPGNPDAPHEKY TISMDFVRRLEQCQSQASVKRLRAHPAYHSFNKKWNLPVYFQI RFREIAGSLEAALTDLVEDAPAESPYCLLASHRTWSSLRCSWD EMFLPLLVHRLWRLHSGRFWARYSVFV\N\ELSLRPISNESPK IKKPLVTGSKEPSITQGNTEQSGSPSETKPVVSISRTQLVYVV ADLKLQELPELLEIIKPKLEMIGFKNFSSISALEDSSQSSFS ACVPSLSKKIIQDLSDCPGFLKSALEVPRLYRRTNKEVPTTAS SYVDSALKPLFQLQSGHKDKLQAI IQWLEGLTSESTHKYYET VSDVLNSVKKMEESLKRLLKQARKTTPANPVGPGSGMSDDDKIRL QLALDVEYLGEQIQKLGLQASDIKSFSALELVAAAKDQATAEQ P </p>
6015	13	2237	<p> AEGCAERRGTEPVVELSMSWESGAGPGLGSQGM DLVWSAWYGKC VKGKGS LPLSAHGIVVAWLSRAEWDQVTYVLFCDHKLQRYALN RITVWRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLY GMALVRFPVNLISERKTKFAKVLKCLAQEVNIPDWIVDLRHELT HKKMPHINDCRRGCYFVLDWLQKTYWCRQLENSLRETWELEEFR EGIEEEDQEEEDKNIVVDIITEQKPRPQDDGKSTESDVKADGDSK GSEEVDSHCKKALSHKELYERARELLVS YEEEQFTVLEKFRYLP KAIKAWNNPSPRVECVLAEKGVTCENREAVLDAFLDDGFLVPT FEQLAALQIEYEENVDLNDVLVPKPFQFQWQPLLRLHLSQNFQT ALLERMLSELPALGISGIRPTYILRWTVELIVANTKTGRNARRF SAGQWEARRGWRLFNCSASLDWPRMVESCLGSPCWASPQLLR I I F\KAMGQGLQDE\EQEKLLRICSIYTSQGENSLVQEGSEASPTG KSPYTLDSLYWSVKPASSSFGSEAKAQQEEQGSVNDVKEEKE EKEVLPDQVEEEENDDQEEEEEDEDEDEDEDEDEDEMEVGFSTG QESPTAENARLLAQKRGALQGS AWQVSSSEVVRWDTFF\LGRMPR SRPRTPAELMLENYDTHVFWTKPVL\EQRLPSTCK\TDTLGL \SCGVGS\GNCNSSSSSNFRGAFLLBARGSLH\GL\KTGLQLF </p>
6016	13	2237	<p> AEGCAERRGTEPVVELSMSWESGAGPGLGSQGM DLVWSAWYGKC </p>

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			VKGKGSPLSAHGIVVAWLSRAEWDQVTVYLFCDHKLQRYALN RITVWRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLY GMALVRFVNLISERKTKFAKVPLKCLAQEVNIPDWIVDLRHELT HKKMPHINDCRRGCYFVLDWLQKTYWCRQLENSLRETWELEEF EGIEEDQEEDKNIVVDDITEQKPEPQDDGKSTESDVKADGDSK GSEEVDSHCKKALSHKELYERARELLVSYEEQFTVLEKFRYLP KAIKAWNPNPSRVECVLAELKGVTCENREAVLDAFLDDGFLVPT FEQLAALQIEYEENVLDNDVLVPKPFSQFWQPLLRLHLSQNFQ ALLERMLSELPALGISGIRPTYILRWTVELIVANTKTGRNARRF SAGQWEARRGWRLFNCASLDWPRMVESCLGSPCWASPQLLRI F/KAMGQQLQDE/EQEKLLRRCISITYTQSGENSLVOEGSEASP KSPYTLDSLYSVKPASSSFGSEAKAQOEEQGSVNDVKEEKE EKEVLDPQVEEEENDDQEEEDDEDEDEDEDEDRMEVGPFFSTG QESPTAENARLLAQKRGALQGSAAQVSSDVRWDTFF/LGRMP SRPRTPAELMLENYDTHVFWTKPVL/BQRLPSTCK/TDTLGL /SCGVGS/GNCSNSSSSNFRGAFLLAARGSLH/GL/KTGLQLF
6017	203	3469	SHQETEQNSAMAPRKRGGRGISPIFCCFRNNDHPEITYRLRND NFALQTMPEALPMPVVEELDVMSSELVDELDTDKHREAMFALP AEKKWQIYCSKKKQDEENKATSWPEFYIDQLNSMAARKSLAL EKEEBERSKTIESLKTALRTKPMRFVTRFIDDLGLSCILNFK TMDYETSESRIHTSLIGCIKALMNNSQGRAHVLAHSESINVIAQ SLSTENIKTKVAVLEILGAVCLVPGGHKKVLQAMLHYQKYASER TRFQTLINDLDKSTGRYRDEVSLKTAIMSFINAVLSQAGVESL DFRLHLRYE/FLMLGIHPVMDKLRKHENSTLDRHLDFFEMLRNE DELEFAKRFELVHIDTKSATQMPFELTRKRLTHSEAYPHFMSILH HCLQMPYKRSNGTVQYWLDDRIIQQIVIQNDKGQDDPSTPLEN FNIKNVVRMLVNEVVKQWKEQAKMRKEHNELOQKLEKKEREC DAKTQEEEMMQTLNKKKEKLEKETTEHKQVQKQVADLTAQLHE LSRRAVCASIPGGPSPGAPGGPFSSVPGSLPPPPPPPLPGGM LPPPPPLPPGGPPPPPPPPPLGAIMP PGAPMGLALKKKSIPO PTINALKSFNWSKLPENKLEGTVWTEIDDTKVKILDLDELERTF SAYQRQDDFFVNSNSKQKEADAIDDTLSSKLKVKELSVIDGRR QNCNILLSRLKLSNDEIKRAILTMDEQEDLPKDMLEQLLKFPVE KSDIDLEEKKHELDMAKADRFLFEMSRINHQQRLQSLYFKK KFAERVAEVKPKVEAIRSGSEEVFRSGALKQLEVVLAFGNYN KGQRGNAYGFKISSLNKIADTKSSIDKNITLLHYLITIVENKYP SVLNLNEELRDIPOAAKVNMTLDEKEISTLRSGLKAVETELEYQ KSQFPQPGDKFVSQVSPFITVASFSFSDVEDLLAEAKDLFTKAV KHFGEEAGKIQPDFFGIFDQFLQAVSEAKQENENMRKKKEEE RRARMEALQKEQREERERKMRKAKENSEESGEFDDLVSALRSGEV FDKDLKLRNRKRITNQMTDSSRERPITKLN
6018	13	2510	TISQSGGIRRRREAVWFEVNMDFSRLHMYSPQCVPENTGYTY ALSSSYSSDALDFETEHKLDPVFDSRMSRSLRLATTACTLGD GEAVGADSGTSSAVSLKNRAARTTKQRSTNKSASF INHVSQV TSSGVSYGGTVSLQDAVTRPPVLDESWAREQTTVDHFWGLDDD GDLKGGNKAQIQGNGDVGAGATGHNGFFCSNCSNMLSEKDVLT AHPAAPGPVSRVYSRDRNQKDDCKGKRHLDAHPGRAGTLWHIW ACAGYFLLQLLRRIGAVGQAVSRTAWSALWAVAPGKAASGVF WWLGIGWYQFVTLISWLVFLLTRCLRNICKFLVLLIPLFLLLG LSLRGQG/NFFSFLPVLNWSMHRTQRVDDPDQVFKPTTSRLKQ PLQGDSEAFPHWMSGVEQQVASLSGQCHHHGENLRELTLLQK LQARVDQMEGGAAGPSASVRDAVGQPRETDFMAFHQHEVRMS HLEDILGKLEKSEAIQKELEQTKQKTI SAVGEQLLPVTEHLQL ELDQLKSELSSWRHVKTGCETVDAVQERVVDQVREMVKLLFSD QQGSLBQLLQRFSSQFVSKGDLQTMRLDLQLQLLRNVTHVSV TKQLPTSEAVVS AVSEAGASGITEAQAARIVNSALKLYSQDKTG MVDFALES GGGISILTRCSETYETKTALMSLFGIPLWYFSQSPR VVIQPDIIYPGNCWAFKGSQGYLVVRLSMMIHAAFTLEHI PKTL SPTGNISSAPKDFAVYGLFNEYQREGQLLQGYTYDQDGESLQMF QALKRPDDTAQIVELRIFSNGHPEYTCLYRFRVHGEPVK
6019	2	1066	TPNDREPPQRPSSRRASHLAQEITSASLGDQTOILGSLTTA

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			PVITSAIRSMPISSQILTNAQQQVIGTLPWVNSASVAAPAPA QSLQVQAVTPQLLLNAQQQVIATLASSPLPPVAVRK\PTSPES LLKSEVQPIKPTPTVPQPAVVIASPAAPAKPSASAPIPTCSET PTVSQLVSKPHPTPSLDEEDGINLEEIREFAKNFKIRRLSLGLTQT QVGOALTATEGPAYSAICRFEKLDITPKSAQKLKPVLEKWL N EALERNQEGQQNLMEFVGGEPSSKKRRRTSFTPAIEALNAYFE KNPLPTGQBITEIAKELNVDREVVRVWFCNRRQTLKNTSKLNVP QIP
6020	4953	549	EAIQFEVSIIGNYGNKFDTTCKPLASTTQYSRAVFDGNYYYL LPW AHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALKSGI QGKIPANQLAELWLKLIIDEVIEDTRYTLPLTEGKANVTVLDTQI RKLRSRSLSQIHEAAVRMRSEATDVKSTLAEIEDWLDKLMQLTE EPQNSMPDII IWMIRGEKRLAYARI PAHQVLYSTSGENASGKYC GKTQTI FLKYPQEKNNNGPKVPVELRVNIWLGLSAVEKKFNSP AE GTFTVFAEMYENQALMFGKWGTSGLVGRHKFS DVTGKI KLRREF FLPPKGWEGEWIVDPERSLLTEADAGHTEFTDEVYQNESRYP GGDWKP AEDTYTDANGDKAASPSELTCPPGWEWEDDAWSYDINR AVDEKGWEYGITIPPDHKKPSWVAEKMVHTHRRRLVRKRK KD LTQTASSTAGAMEELQDQEGWEYASLIGWKPHNKKQRSSDTFR RR RWRKMAPSETHGAAAI FKLEGALGADTTEDGDEKSLEKQK HSA TTVFGANTPIVSCNFDRDYIYHLRCYVYQARNLLALDKDSFSDP YAHICFLHRSKTEIIHSTLNPTWDQTIIFDEVEIYGEPTVLQ NPPKVMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLTAEILRGKDGSNLP ILPPQAPNLYMVP QGIRPVVQLTAIEILAWGLRNMKNFQMASITSPSLVVECGGERV ESVVIKNLKKTPNFPSVLFMKVFLPKBELYMPPLVIKVIDHRQ FGRKPVVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPCR DIVIEMEDTKPLLASKCLSSMSTALS KMASPATVHLTEKEERIV DWNSKFYASSGEHEKCGQYIQKGYSLKTYNCELENVAFEGELT DFDSTFKLYRGKSDENEDPSVVGFEFGKSFRIYPLPDDPSVPAPP RQFREL PDSVPQECTVRIYIVRGLELQPDNNGLCDPYIKITLG KKVIE\DRDHYI\PNLTLPVFGRMVELSCYLQEKDLKISVYDYD TFTRDEKVGETI IDLENPF\LSRFG\SHCG\IPEEYCVSGVNTW RDSLR\PTQ\LLQNVARFKGFPQPILEDGSRIRYGGRDYSLDE FEANKILHQHLGAPEERLALHILRTQGLVPEHVETRTLHSTFPQ NIS\RYLRLVI IWNKDVILDEKSITGEEMSDIYVKGWIPGNEE NKQKTDVHYRSLDGEENFNWRVFPPDYLP AEQLCIVAKKEHFWS IDQTEFRIPPR\LIQIW\DNKFS\LDDYLGFPRTLTCRHTI HFLQKSPGGNC/RGLDMIPDLKAMNPLKAKTASLFEQKSMKGWW PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSFELWFTNPKCTMKFIVWRRFKWVIIGLLFLLILL LFAVLLYSLPNYLSMKIVKPNV
6021	4953	549	EAIQFEVSIIGNYGNKFDTTCKPLASTTQYSRAVFDGNYYYL LPW AHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALKSGI QGKIPANQLAELWLKLIIDEVIEDTRYTLPLTEGKANVTVLDTQI RKLRSRSLSQIHEAAVRMRSEATDVKSTLAEIEDWLDKLMQLTE EPQNSMPDII IWMIRGEKRLAYARI PAHQVLYSTSGENASGKYC GKTQTI FLKYPQEKNNNGPKVPVELRVNIWLGLSAVEKKFNSP AE GTFTVFAEMYENQALMFGKWGTSGLVGRHKFS DVTGKI KLRREF FLPPKGWEGEWIVDPERSLLTEADAGHTEFTDEVYQNESRYP GGDWKP AEDTYTDANGDKAASPSELTCPPGWEWEDDAWSYDINR AVDEKGWEYGITIPPDHKKPSWVAEKMVHTHRRRLVRKRK KD LTQTASSTAGAMEELQDQEGWEYASLIGWKPHNKKQRSSDTFR RR RWRKMAPSETHGAAAI FKLEGALGADTTEDGDEKSLEKQK HSA TTVFGANTPIVSCNFDRDYIYHLRCYVYQARNLLALDKDSFSDP YAHICFLHRSKTEIIHSTLNPTWDQTIIFDEVEIYGEPTVLQ NPPKVMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLTAEILRGKDGSNLP ILPPQAPNLYMVP QGIRPVVQLTAIEILAWGLRNMKNFQMASITSPSLVVECGGERV ESVVIKNLKKTPNFPSVLFMKVFLPKBELYMPPLVIKVIDHRQ FGRKPVVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPCR

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			<p>DIVIE MEDTKPLLASKCLSSMSTALSKMASPATVHLTEKEEIV DWSKFYASSGEHEKCGQYIQGYSKLKIYNCELENVAEFGELT DFSDFKLYRGKSDENEDPSVVGFEKGSFRIYPLDDPSVPAPP RQFRELPSVDPQECTVRIYIVRGLELQPDNGLCDPYIKITLG KKVIE\DRDHYIPNTLNPVFGRMVELSCYLPQEKDLKISVDYD TFTREKVGGETIIDLENPF\LSRFG\SHCG\IPEEYCVSGVNTW RDSLR\PTQ\LLQNVARFKGFPQPILEDGSRIRYGGRDYSLDE FEANKILHQHLGAPEERLALHILRTQGLVPEHVETRTLHSTFQP NIS\RYYL RVIIWNTKDVILDEKSI TGEEMSDIYVKGWIPGNEE NKQKTDVHYRSLDGEENFNWRFVFPFDYLP AEQLCIVAKKEHFW SIDQTEFRIPPR\LIQIW\DNDFKS\DDYLGFPRTLTCRHTI HFLQKSPGGNC/RGLDMIPDLKAMNPLKAKTASLFEQKSMKGWW PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSFLWFTNPCKTMKFIVWRRFKWVIIGLLFLLILL LFVAVLLYSLPNYLSMKIVKPNV</p>
6022	4953	549	<p>EAQFEVSIIGNYGNKFDTTCKPLASTTQVSRAVFDGNYYYLPLW AHTKPVVTLTSYWDISHRLDAVNTLLAMAERLQTNIEALKSGI QGIIPANQLAEWLKLIIDEVIEDTRYTLPLTEGKANVTVLDTQI RKLRSRSLSQIHEAAVRMRSEATDVKSTLAEIEDWLDKLMQLTE EPQNSMPDIIIMIRGEKRLAYARIPAHQVLYSTGENASGKYC GKTQITFLKYPQEKNNGPVPELVRVNIWGLSAVEKKFNSFAE GTFTVFAEMYENQALMFGKNGTSGLVGRHKFSVDTGKIKLKREF FLPPKGEWEGEWIVDPERSLLEADAGHTEFTDEVYQNSRSP GGDWKPAEDTYTDANGDKAASPSELTCPGWEWEDDAWSVDINR AVDEKGWEYGITIPPDHKKPSWVAABKMYHTRRRRLVRKRKXD LTQTASSTAGAMEELQDQEGWEYASLIGWKFWKQRSSDTFRFR RWRKMAPSETHGAAAIKLEGALGADTTEDGDEKSLKQKHS TTVFGANTPIVSCNFD RDYIYHLRCYVYQARNLLALDKDSFSDP YAHICFLHRSKTTEIIESTLNPWTQDTIIFDEVEIYGEFQTVLQ NPPKVI MELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLVTAEILIRGKDGSNLPILPPQRAPNLYMVP QGIRPVVQLTAIEILAWGLRNMKNFQMASITSPSLVVECGGERV ESVVIKNLKKTPNFPSSVLFMKVFLPKBELYMPPLVIKVIDHRQ FGRKPVVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPCR DIVIE MEDTKPLLASKCLSSMSTALSKMASPATVHLTEKEEIV DWSKFYASSGEHEKCGQYIQGYSKLKIYNCELENVAEFGELT DFSDFKLYRGKSDENEDPSVVGFEKGSFRIYPLDDPSVPAPP RQFRELPSVDPQECTVRIYIVRGLELQPDNGLCDPYIKITLG KKVIE\DRDHYIPNTLNPVFGRMVELSCYLPQEKDLKISVDYD TFTREKVGGETIIDLENPF\LSRFG\SHCG\IPEEYCVSGVNTW RDSLR\PTQ\LLQNVARFKGFPQPILEDGSRIRYGGRDYSLDE FEANKILHQHLGAPEERLALHILRTQGLVPEHVETRTLHSTFQP NIS\RYYL RVIIWNTKDVILDEKSI TGEEMSDIYVKGWIPGNEE NKQKTDVHYRSLDGEENFNWRFVFPFDYLP AEQLCIVAKKEHFW SIDQTEFRIPPR\LIQIW\DNDFKS\DDYLGFPRTLTCRHTI HFLQKSPGGNC/RGLDMIPDLKAMNPLKAKTASLFEQKSMKGWW PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSFLWFTNPCKTMKFIVWRRFKWVIIGLLFLLILL LFVAVLLYSLPNYLSMKIVKPNV</p>
6023	102	916	<p>SQELGMFVELNLLNTTPDRAEQKLTLLCDAKTGDSFLVHHFL SFYLKANCKVCFVALIQSFHSYIVGQKLGVSILTARERQGLVF LEGL/IVCSGR\VFQAQKEFHPLOPLREANAGNLKPLFEFVREA LKPVDSGEARWTPVLLVDDLSVLLSLGMGAVAVLDFIHYCRAT VCWELKGNMVLVHDSGDABDEENDILLNGLSHQSHLILRAEGL ATGFCRDVHGQLRILWRRPSQPAVHRDQSFTYQYKIQDKSVSFF AKGMSPAVL</p>
6024	3	3260	<p>FLSFLCYPRFRCLEFLQFAIPASRMEQLNELELLMEKSPWEEAE LPAELFQKKVVASFPRTVLSTGMDNRYLVAVNTVQNKEGNCCK RLVITASQSLNKKELCILRNDWCSPVPEPGDIHLEGDCSTDTW IIDKDFGYLILYPDLISGTSIASSIRCMRAVLSETFRSSDPA TRQMLIGTVLHEVFQKAINNSFAPEKLQELAFQTIQEIIRHLKEM</p>

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			YRLNLSQDEIKQEVEDYLFPSFCKWAGDFMHKNTSTDFPQMQLSL PSDNSKDNSTCNIEVVXPMDEESIWSRFLGKGIKIDVTVGVI HRGYKTKYKIMPLELKTGKESNSIEHRSQVVLVYLLSQERRADP EAGLLLYLKTGMYPVPANHLDKRELKLRNQMAFSLFHRISKS ATRQKTQLASLPQIIIEEKTCKYCSQIGNCALYSRAVEQQMDCS SVPIVMLPKIEETQHLKQTHLEYFSLWCLMTLESQSKDNKKK HQNWLMPASEMEKSGSCIGNLIRMEHVKIVCDGQYLHNFQCKH GAIPVTNLMAGDRVIVSGEERSLFLSRGYSVKEINMTTVCLLD RNLVSLPESTLFRLDQEEKNCIDITPLGNLSKLMENFVSKKLR DLIIDFREPOFISYLSVLPDADKDTVACILKGLNKPQRQAMKK VLLSKDYTLIVGMPGTGKTTTICTLVRIYACGFSVLLTSYTHS AVDNILLKLAKFKIGPLRSR\QIQKVHPAIQQFTEHEICRSKSI KS\ALLLELYTSQLIDATTCMGINHPISRKIFDFCIIVDEASQ ISQPICLGPLFFSRRFVLVDHQQPLPLVLRREARALGMSSEL KRLQNKSAVVQITVQYRMNSKIMSLSNKLTIEGKLECGSDKVA NAVINLRHFKDVKLEEFYADYSNPWLMGVFEPNPNVCFLNTD KVPAPQVEKGGVSNVTEAKLIVFLTSIFVKAGCSPSDIGIAP YRQQLKIINDLLARSIGMVEVNTVDKYQD\RDKSIVLVSVFRSN KDGTVGELLKDWRRINVAITRAHKLILLGCVPSLNCPPLEKL LNHLNSEKLIIDLPSREHESLCHILGDFQRE
6025	3977	89	GGFPAQSDHLPVFPFLRSDDLITMSTLVSPHPDAFFSLRALYA ARYGEAGEGPGWGGGAPRIQLQPPPTSRSTSPFPRLPALEQGP GLWVWGATAVAQLLWPAAGLGGPGGSRRAVLVQQWVSADTELIP AACGATLPALGRSSAQDPQAVLGALGRALSPLLENLRLHTYLA GEAPTADLAAVTALLLPFRYVLDPPARRIWNVTRWFVTCVRQ PEFRVLEGEVVLVSARPLSHQPGPEAPALPKTAAQLKKEAKKR EKLEKFOQKQKIQQQQPPPEKKEKPEKREKRDGPVITYDLPTP PGEKDVSGMPDSSYSPRYVEAAWYPPWNEQQGFFKPEYGRPNVS AANPRGVFMCIIPPNVTGSLHLGHALTNAIQDSLTRWHMRGE TTLWNPGLHAGIATQVVVEKLVREQLSRHQLGREAFLEQVW KNKEBKGDRIYHQLKKGSLDWDRACTMDPKLSAAVTEAFVR LHEEGIIYRSTRLVNWSCTLNSAISDIEVDKKELTGRTLLSVPG YKEKVEFGVLVSFAYKVQGSDDSEVVVATRIETMLGDVAVAV HPKOTRYQHLKGNVHPFLSRSLPIVFDEFVDMDFGTGAVKIT PAHDQNDYEVGQRHGLEAISIMDSRGALINVPPFLGLPRFEAR KAVLVALKERGLFRGIEDNPMVPLCNRSKDVVEPLLRPOWYVR CGEMAQAASAAVTRGDLRLPERHQRTWHAWMDNIRE\WCMFPG KLWVG\HR\IPAYFVTVSDPAVFPGEDPDGRYVWVSGRNEAARE KAAKEFGVSPDKISLQDQEDVLDTWFSGLFPLSILGWPNQSED LSVFYPGTLELTHDILFFVARMVMLGLKLTGRLPFFREVYLHA IVRDAHGRKMSKSLGNVIDPLDVITYGISLQGLHNQLLNSNLDPS EVEKAKEGQKADFPAGIECGTDALRFGLCAYMSQGRDINLDVN RILGYRHFCNKLWNATKFAIRGLGKGFVPSPTSQPGGHESLVD WIRSRLEAVRLSNQGFQAYDFPAVTTAQYSFWLYELCDVYLEC LKPVLNGVDQVAECARQTLTYTCLDVGLRLLSPFMPFVTEELFQ RLPRMPQAPPSLCVTPYPEPSECSWKDPEAAALELALSITRA VRP\LRADYNLHFESEPTCFLEVAD\EATGALASAVSGYVQGP QAQVVVAEAPWGLPAP\QCAVALASDRCSI\HLQLQG\LLDP ARELG\KLQ\AKRVEAQ\ROAQ\RLR\ERRA\ASGNPVKVP\LE VQEADEAKLQQTAEALRKVDRAIALFQKML
6026	2674	514	GPITFLKKAKMKDMLRIHVLLGLAITTLVQAVDKHVDPCRLC TCEIRPWFTPRSIYMEASTVDCNDLGLLTFPARLPANTQIILLQ TNNIAKIEYSTDFPVNLTGLDLSQNNLSSVTNINGKMPQLLSV YLEENKLTPEKCLSELNLQELYINHLLSTISPGAFIQLHN LLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFK PLINLRSVLIAGINLTIENALVGLNLESISFYDNRLIKVPH VALQKVNLKFLDLNKNPINRIRRGDFSNNMLHLKELGINNMP ISIDSLAVDNLPLDKIEATNNPRLSYIHPNAFFRLPKLESML NSNALSALYHGTIESLPNLKEISIHSPNIRCDVIRWMNMNKT IRFMEPDLSLCVDPPEFQGNVRQVHFRDMMEICLPLIAPESFP SNLNVAGSYVSHCRATA\BQPEIYWTSPGQKLLPNT\LT

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			KFYVHSEGLTDINGVTPKEGGLYTCIATNLVGADLKSMVKVDG SFPQDNNGSLNLIKIRDIQANSVLVSWKASSKILKSSVKWTAFAVK TENSAAQASARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQKNR KCCVNVTTKGLHPDQKEYEKNNTTLMACLGGLGIGVICLIS CLSPMNCDDGGHSYVRNVLQKPTFALGELYPLINLWEAGKEKS TSLKVKATVIGLPTNMS
6027	5254	4148	GGRRAPGRPGRSIKDEEEETVFREVVSFSDPLFVRYYDKDTHK PISFYLSLEELLANKPRLEDGFNVALEPLACRQPPPLSSQRPRRT LLCHDMGGYLDLDRFIQGSVVQTPYAFYHWQCIDVFVYFSHTV TIPPGWNTAHRHGVCLGTFFITEWNEGGRLCEAFLAGDERSY QAVADRLVQIT\RFRRFDGWLINIENSLSLAAVGNMPPFLRYLT TQLHRQVPGGLVLWYDSVVQSGQLKWQDELNQHNRFVFDSCDGF FTNYNWRREEHLERMLGQAGERRADVVGVDVFARGNVVGGRFDT DKVGGGFRPRASGPVPPPLGPHFLMDLPFSPAPQRNDSSCSQSG DPVALNRNCPAPAKLCPH
6028	120	3432	NCLLLQAKGFHGEIEDLQQWLTDTERHLLASKPLGGLPETAKEQ LNVHMEVCAAFEAKEETYKSLMQGQQMLARCPKSAETNIDODI NNLKEKESVETKLNER\KT\KLEALNLA\MEFHNSL\QDFIN WLTQAEQTLNVASRPSLILDTVLVQIDEHKVFANVNSHREQII ELDKTGTHLKYFSQKQDVVLIKNNLISVQSRNEKVQORLVERGR SLDDARKRAKQFHEAWSKLEWLESEKSLDSELEIANDPDKIK TQLAQHKEFQKSLGAKHSVYDITNRTGRSLKEKTSLADNKLKD DMLSELDRDKWDTICGKSVERQNKLEEA\LLFSGQFTDALQALID WLYRVEPQLAEDQPVHGDIDLVMNLIDNHKAFQKELGKRTSSVQ ALKRSARELIEGSRDSSSWVKVQMQLSTRWETVCALSISKQTR LEAALRQAEFFHSVVHALLLENLAEEQTLRFHGVLPDDEALRT LIDQHKEFMKLEEKRAELNKATTMGDTVLAIChPDSTITIKHW ITIRARPEEVLAWAKQHQQRLASALAGLIAQELLEALLAWLQ WAEETLTDKKEVIPQEIIEEVKALIAEHQTFMEEMTRKQPDVDK VTKTYKRRADPSSLQSHIPVLDKGRAGRKRFPASSLYPSGSQT QIETKNPRVNLVSKVQVWLLALERRRKLNDALDRLEELREFA NFDFFDIWRKKYMRWMNHKKSVMDFRRIDKQDQDKITRQEFID GILSSKFPTSRLMSAVADIFDRDGDGYIDYEFVAALHPNKDA YKPI TDADKIEDEVTRQVAKCKAKRFQVEQIGDNKYRFFLGNO FGDSQQLRLVRLRSTVMVRVGGGWMALDEFVLKNDPCRAKGR NMBELREKFILADGASQGMMAFRPRGRRSRPSSRGASPNRSTVS SQAAQASQPVPATTPKILHPLTRNYGKPWLNTSKMSTPCKAA ECSDFPVPSAEGTPIQSKLRLPGYLSGKGFGHSGEDSGLITAA ARVRTQFADSKKTPSRPGSRAGSKAGSRASSRSGSDASDFDISE IQSVCSDEVETVPQTHRPTPRAGSRPSTAKPSKIPTPQRKSPASK LDKSSKR
6029	1	3533	IMPCGSSRLRGCWTHPNEPVSDLSYFDCIESVMENSKVLGESH AGISQNAKTGDLPAFGCECVGIASKALCGLTEAAQAAYLVGIFD PNSQAGHQGLVDP IQFARANQAIQMACQNLVDPGSSPSQVLSAA TIVAKHTSALCNACRIASSKTANPVAKRHFVQSAKEVANSTANL VKTIKALDGDPSDNRNKCRITAPLIEAVENLTAFASNPEFVS IPAQISSEGSQAQEPILVSAKPMLESSSYLIRTARSLAINPKDP PTWSVLAGHSHTVSDSIKSLITSIRDKAPGQRECDYSIDGINRC IRDIEQASLAAVSQSLATRDDISVEALQEQLTSSVVEIGHLIDP IATAARGEAAQLGHKGTQLASYFEPLILAAVGVASKILDHQQQM TVLDQTKTLAESSALQMLYAAKEGGGNPKAQHTHDAITEAQLMK EAVDDIMVTLNEAASEVGLVGMVDAIAEAMSKLDEGTPPEPKG TFVDYQTTVVKYSKAI AVTAQEMMTKSVTNPEELGGLASQMTSD YGHAFQGMMAATAEP EEIFQIRTRVQDLGHGCI FLVQKAG\ ALQVCTDSYTKRELIECARAVTEKVS LVSALQAGNKGTOACT TAATAVSGIIADLDTT IMFATAGTLNABNSETFADHRENTLKT KALVEDTKLLVSGAASTPDKLAQAQSSAATITQLAEVVKLGAA SLGSDDPETQVVLINAIKDVAKALSDLISATKGAASKPVDDPSM YQLKGAAKVMVNTVSLKTKVKA VEDEATRGRTRALEATIECIKQ ELTVFQSKDVPEKTSPEESIRMTKGITMATAKAVAAGNSCRQE DVIATANLSRKAVSDMLTACKQASFHPDVSDEVTRALRFGTEC

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			TLGYLDLLEHVLVILQKPTPELKQQLAAFSKRVAGAVTELIQAA EAMKGTWVDPEDPTVIAETELLGAAASIEAAKKLEQLKPRAK PKQADETLDFEQLLEAAKSIAAATSALVKSASAAQRELVAQGG VGSIPANAADDGQWSQGLISAARMVAAATSSLCEANASVQGH SEEKLISAKQVAASTAQLLVACKVKADQDSEAMRRLLQAAGNAV KRASDNLVRAAQKAAFGKADDDVVVKTKFVGGIAQIIAAQEEM LKKEERELEARKLAQIRQQQYKFLPTELREDEG
6030	3	1777	FPGRGSPALQLEVLICLGLMGLERLNLVAPIFYRNIVNLLTEN APWNSLAWTVTSYVFLKFLQGGGTGSTGFVSNLRTFLWIRVQQF TSRRVELLIFSHLHLSLRWHLGRRTGEVLRIADRGTSSTVTLGL SYLVFNVIPTLADIIIGIIYFSMFFNAWFGILVFLCMSLYLTLT IVVTEWRTKFRAMNTQENATRARAVIDSLNFTVVKYNAESYE VERYREAI IKYQGLEWKSSASLVLLNQTQNLVIGLGLLAGSLLC AYFVTEQKLQVGDYVLFGTYYIQLYMLNWFGTYYRMIQTNFID MENMFDLLKK\ZTEVKDLPAGAGPFRFQKGRIEFENVHFSYADGR ETLQDVSTFVMPGQTLALVGPAGGKSTILRLFRFYDISSGCI RIDGQDISQVTQALFRFSHWELCPKDTVLFNDTIADNIRYGRVT AGNDEVEAAAQAAGIHDAIMAFPEGYRTQVGERGLKLSGGEEKQR VAARTILKAPGIIILDEATSALDTSNERAIQASLAKVCANRTT IVVAHRLSTVVNADQILVIKDCIVERGRHEALLSRGGVYADMW QLQQQBEETS EDTKPKQTMER
6031	160	1694	LRMSNLKSNVNEAGKSKSNDSEEGLEDAVEGADEALQKATKS DSSSPQVRPHSSPFRFVTEELLETARGVTNMLAHEIVVNG DFQIKPVLPENSLKKRVKEIVHKAFWDCLSVQLSEDPAYDHA IKLVGEIKETLLSFLPGHTRLRNQITEVLDLDLIQRAENGAL DISKLAEFIIGMMGTLCAPARDEBVKLKDKEIVPLFREIFSV LDLMKVDMANFAISSIRPHLMQOSVEYERKKFQEILERQPNSLD FVTQWLEEASEDLMTOKYKHALPVGGMAAGSGDMRPLSPVAVQN YAVLKLLKWDHLQRPFPETVLMQDSRFHELQQL\REQTLILGAV LLVTFMSAAGISSQADFAEKLKMIKILLTDMHLPSFHLKDV TTIGEKVCLEVSSCLSLCGSSPFTTDKETVLKQGIQAVASPD IRRIMESRILTFLETYLASGHQKPLPTVPGGLSPVQRELBEVAI KRALVYNKVMVFCFYDAILSKILVRS
6032	39	2415	AARLCRAQPTKSAWMIRDLSKMPQTRHPAPHQPAQPFKFTISE SCDRIKEEFQFLQAYHSLKLECEKLAASEKTEMQRHYVMYIEMS YGLNIEMHKQAEIVKRLNAICAVIPFLSQEHQQQVQAVERAK QVTMAELNAIIGQQQLQAHLSHGHLPLVPLTPHPSGLQPPAIP PIGSSAGLLALSSALGGQSHLPKDEKKHHDNDHQDRDSIKSS SVSPSASFRGAEKHRNSADYSSSEKKQKTEKEIAARYDSGEEK SDDNLVVDVSNEDPSSPRGSPAHSPRENGLDKTRLLKKDAPISP ASIASSSSTPSSKSKELSLNEKSTTPVSKSNTPTPTDAPTGS NSTPGLRPVPGKPPGVDFLASSLRTPMAVPCPYPTFPFIVPHAG MNGELTSPGAAYAGLHNISPQMSAAAAAAAAAAYGRSPVVGFD PHHMRVPAIPPNLTGIPGGKPAYSFHVSAQGQMPVFPFPDAL IGPGIPRHARQINTLNHGEVCAVTISNPTRHVYTGKGCVKVW DISHPGNKSPVSLDCLNRDNYIRSCRLPDGRTLIVGGEASTL SIWDLAAPTFRKAELETSSAPACYALAISSPDSKVCFCSCSDGNI AVWDLHNQTLVVRQFGHTDGCSCIDISNDGKTLWTGGLDNTVRS W\DLREGRQLQQHD/FFTSPVFSGLGYCP\TEEWLAVGMENS\N EVLHVTKPDYQLHLHESCVLSLKFAHCGKWF\VSTGKDNLLNA W\RTPYG\ASIF\QSKSSS\VLSCDI\SVDDKYIVTGS\GDK\ RATVYEVIIY
6033	39	2415	AARLCRAQPTKSAWMIRDLSKMPQTRHPAPHQPAQPFKFTISE SCDRIKEEFQFLQAYHSLKLECEKLAASEKTEMQRHYVMYIEMS YGLNIEMHKQAEIVKRLNAICAVIPFLSQEHQQQVQAVERAK QVTMAELNAIIGQQQLQAHLSHGHLPLVPLTPHPSGLQPPAIP PIGSSAGLLALSSALGGQSHLPKDEKKHHDNDHQDRDSIKSS SVSPSASFRGAEKHRNSADYSSSEKKQKTEKEIAARYDSGEEK SDDNLVVDVSNEDPSSPRGSPAHSPRENGLDKTRLLKKDAPISP ASIASSSSTPSSKSKELSLNEKSTTPVSKSNTPTPTDAPTGS NSTPGLRPVPGKPPGVDFLASSLRTPMAVPCPYPTFPFIVPHAG

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			MNGELTSPGAAYAGLHNISPMMSAAAAAAYGRSPVVGFD PHHIMRVPAIPNLGTGIPGGKPAYSFHVSADGQMOPVFPFDAL IGPGIPRHRQINTLNHGEVVCVITISNPTRHVYTGKGCVKVW DISHPGNKSPVSQLDCLNRDNIYRSCRLPDGRTLIVGGEASTL SIWDLAAPTTPRIKAELTSSAPACYALAI SPDSKVCFCSSDGN AVWDLHNQTLVRQFGHTDGASCIDISNDGTLWTGGLDNTVRS W\DLREGRLQQHD/FFTSFVFSGLGYCP\TEEWLAVGMENSN\V EVLHVTKPDKYQLHLHESCVLSLKFAHCGKNF\VSTGKDNLLNA W\RTFYG\ASIF\QSK3SSS\VLSCDI\SVDDKYIVTGS\GDK\ RATVYREVIY
6034	2683	714	ESGRRRLKRRRSPCPGTAGGPGETNPGPGACPRGPREEAAAAAM ETAPQEAAPPVPGADGDI EEPAPAEAGSPSPASPPADGRLKAAAKR VTFPSDEDIVSGAVEPKDPWRHAQNVTVDEIVIGAYKQACQKLCNC RQIPKLLRQLQEF\DLGHRLDCLDLGKGLDYKTCEALEEVFKR LQFKVVDLEQTNLDEDGASALFDMIEYYESATHLNISFNKHIGT RGWQAAAHMMRKTSCLOYL\ DARNTPLLDHSAPFVARALRIRSS LAVLHLENASLSGRPLMLLATALKMMNMLRELYL\ADNKLNGLO DSAQGNLLKFNCSLQILDLRNNHVLDSGLAYICEGLKEQRKGL VTL\VLWNNQLTHTGMAFLGMLPHTQSLETNLGHNPIGNEGV RHLKNGLI SNRSVLRGLASTKLTCEGAVAVAEFIAESPRLLRL DLRENEIKTGGLMALSLALKVNHSLLRLDLDRPKKEAVKSFIE TQKALLAEIQNGCKRNLVLAREEREKEQPQLSASMPETTATEP QPDDEPAAGVQNCAPSPAPSPDSDSDSDEEEEEEEGERDET PSGAIDTRDTGSSEPQPPPEPPRSGPPLPGLKPEFALALPEP PPGPEVKGSGSCGLEHLSCKNEKELEELLEASQESQOETL
6035	19	404	SVTYLGTILHKNLTGALPADPVQLISQTPPTSTKQQLSFLGMVG YFYLWIPGFAILLTKPLCKLTENLADAIKPSFSHSSFRSLKTA LENASTLALPDSSQPF\SLHTABVQGCVEILITQGLGPLPV
6036	1745	356	LPDVEKLGRRRGRKMSVEKGAATSVSNRGRFSGRFPFKLQNR SRGGQGRGVKPPHLLAALILARGGSKGIPKNI\KHLAGVPLIGW VLRAALDSGAFQSVVWSTDHDEIENVAKQFGAQVHRSSSEVSKD SSTSLDAIEFLNYHNEVDIVGNIQATSPCLHPTDLQKVAEMIR EEGYDSVFSVVRHQFRWSEIQKGVREVEPLNLPAPKRRPQD WDGELYENGsfYFAKRHLIEMGYLQGGKMAIYEMRAEHSVDIDV DIDWPIAEQVRVLYGYFGKEKLKEIKLLVCNIDGCLTNGHIYVS GDQKEIISYDVKDAIGISLLKSGIEVRLISERACSKQTLSSLK LDCKMEVSVSDKLAVVDEWRKEMGLCNKEVAYLGNEVSDEECLK RVGLSGAPADACSTAQKAVGYICKNGGGRGA\IREFAEHIC\LL MEKGLINFMPKNNRLAVNIGEEK
6037	2936	1919	WTSWWMSSVLTILLFSLQGNKMLNYSAPSAGGYLLPRKPVGTTPA GGGFPRRHVSITLPSSKFRQNLSSSLKGEPAPALSSRDSRFRDR SFSEGGERLLPTQKQPGGGQVNSSRYKT\ELCRPPEENGACKY DKCQFAHGIHELRLSLTRHPKYKTEL CRTFTHTIGFCPYGPRCHFI HNAEERRALAGARDLSADRPRQLQHSFSFAGFPFAAATAATGILL DSPTSITPPFILSADDLLGSPITLPGDTNPNP\AFSSQELASLFA PSMGLPGGGSPTTFLFRMSESPHMFDSPPSPQDLSLSDQEGYLS SSSSSHSGSDSPTLDNSRRLPIFSRLSISDD
6038	1450	426	SSALQEFGRNHTFGVPLPFRKQIISCNTICQLRFNSDSQAAAH YKGTKHAKKLKALEAMKNKQSVTAKDSAKTTFTSITNTINTS SDKTDGTACTPAISTTTTVEIRKSSVMTTEITSKVEKSPPTATG NSSCPSTETEEBKAKRL\YCSLCKVAVNSASQLEAHNSGTCHK TMLEARNSGTIFKAPPRAGVKGKPVNKGNTGLQNKTFHCEICD VHVNSETQLKQHISSRRHKDRAAGKPKPKYSPYNKLQKTAHPL GVKLVSKEPSKPLAPRILNPLAAAAAAAVAVSSPFSRLTAP AATLFQTSALPPALLRPAPGPIRTAHTPVLFPAPY
6039	4073	1000	LDEYEARLTLANLDDFEEDNDDENRVNQEEKAKITELINKL NFLDEAEKDLATVNSNPFDDPDAAELNPFDPDSSEEPITETASP RKTEDSFYNNNSNPFKEVQTPQYLNPPDEPEAFVTIKDSSPQST KKXNIRPVDMSKYLADSSKTEEBEELDESNNPFYEPKSTPPNNL VNPVQBLETERRVKRAKAPPVLSFKTGVLENENTVSAGKDLSTS

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			PKPSPSPVLPGRKPNASQSLVWCKEVTKNYRGVKTINFTTSW RNLSPFCAILHFRPDLIDYKSLNPDQIKENNKAYDGFASIGI SRLLSPSDMVLAIIPDKLTVMYLYQIRAHFSGQELNVVQIEEN SSKSTYKVGNYETDNTSSVDQEKFYAELSDLKREPELQOPTSGA VDFLSQDDSVFVNDSSGVGESESEHQTDDHLSPTASGPYCRRTK SDTEPQKSQSSSGRTSGSDPGICSNSTDSQAQVLLGKKRLKA ETLELSDLYVSDKKKMSPPFICEETDEQKLQTLDIGSNLEKEK LENSRSLECRSDPESPIKKTSLSPSTKLGSYSRDLDLAKKHA SLRQTESDPPADRTTLNHADHSSKIVQHRLLSRQELKERARVL LEQARDAALKAGNKHNTNTAAPPFCNRQLSDQDEERRRQLRER ARQLIAEARSGGKMSSELPYGERAAEKLKERSKASGDENDNIEI DTNEEIPGFGVVGDELNTLENDLDTPEQNSKLVLDLKLKLLB VQPQVANSFSSAAQKAVTESSEQDMKSGTDLRTERLQKTERF RNPVVFSSKDSVTRKTQLQSPSQYIENRPEMKRQRSIQEDTKKGN EKAATITETQKPSSEDEVNKGFKDS\SOYVVGELAALENEQKQ IDTRAALVEKRLRYLMDTGRNTEEEAMQEWFMVNVKKNALIR RMNQLSLLEKEHDLERRYELLNRELRLAIEDWQKTEAQRRE QLLLDELVALVNRDALVRDIJAQEKQAEEDHEHLERTLEQNGK KMAKKECKCVLQ
6040	475	1052	PTALMTAPSCAFFVQFRQPSVSGLSQITKSLYISNGVAANNKLM LSSNQITMVINVSVEVNTLYEDIQVMQVPVADSPNSRLCDFFD PIADHIHSVEMKQGR\TLHCAAGVSRSAALCLAYLMKYHAMSL LDAHTWTKSCRPIIRPNSGFNEQLIHFEFQLFGKNTVHMVSSPV GMIPDIYEKEVRLMIPL
6041	2	3886	TEKDEKTAHNLENVLHFWERLSEICVAKISEFEADVESVLGVS NLLQVLQKPKGSLKSSKKNGKVRPADEILESNEKNEKCVSSEG EKIECWELTTEPSLTHNSSGLLSPLRKKPLEDLVCKLADISINY VNERKSEQHLRFLSTLLDSPSSSRVFKMLLGDEKQSTVQAKPLE IAKLQKNPAVQFLYQKLIGWLNEDQRKDFGLVDILYSALRCC DNDMERKKVLDLTKVDLKNWSLLKIEKACPSDDKHALVTPLW KGDILGEKLVNLADCLCNEDLESRVSSSHFSEWTLTSLVLSQ HVKNDYLGDVYVERIIVRLHETLFTKTKLSEAESSDSSVSFIC DVAINYFSSAKGCLLMPSSDILLTLFQLCAQSKEKTHLPDFLI CKLKNLWLSGVNLLVHQTDSYKESTPLHLSALWLKNQVQASSL DINSLQVLLSAVDDLNTLLESEDSYLMGVYIGSVMPNDSWEK MRQSLPMQWLHRPLLEGRLSLNYECFKTDFKEQDIKTLPSHLCT SALLSKMVLIALRKETVLENNELEKIIAELLYSLQWCEELDNPP IFLIGFCEILQKMNITYDNLRVLGNMSSGLLQLLFNRSREHGTW SLIIAKLILSRSSISSEVKPHYKRKESFFPLTEGNLHTIQSLCP FLSKEEKEKFSACIPALLGWTKKDLCSNNGGFGHLAIFNSCLQ TKSIDGELLHGILKIIISWKEHEDIFLFCNLSEASPEVLGV NIEIIRFLSLFLKYCSSPLAEESEWDFIMCSMLAWLETTSENQAL YSIPLVQLFACVCDLACDLASAFFDSTTLDTIGNLFPVNLISEWK EFFSQGIHSLLLPILVTVTGENKDVSETSFQNAMLKPMCELTLY ISKEQLLSHKLPARLVADQKTNLPEYLOTLNLTAPLLLFRARP VQIAVYHMLYKLMPELPQYDQDNLSYGDDEEPALSPPAALMS LLSIQEDLENVLCIPVGOIVTIKPLSEDFCYVLGYLLTWKLI LTFKAASSQLRALYSMYLRKTKSLNKLLYHLFRMPENPTYAB TAVEVPNKDPKTFTEELQLSIRETTMLPYHIPHLACSVYHMTL KDLPAWVRLWNSSEKRVFNIVDRFTSKYVSSVLSFQBISSVQT STQLFNGMTVKARATTREVMATYTTIEDIVIELIQLPSNYPLGS IIVESGKRVGVAVQQRNWMQLSTYLTHTQNGSIMGLALWKNV VDRKFEGVEDCMICFSVIHGFNYSLPKKACRTCKKKFSA\CLY KWFTSSNKSTCSLCRETFE
6042	1306	253	MAELAPASPSDIKASVNGDTTLLCSRQSCGMNEVRQVSLTYP GSPAPSHSLPLQPRSGSLCPSRAW/PDPHQLFDDTSSAQSRGY GAQRAPGGLSYPAASPTPHAAFLADPVSNMAMAYGSSLAAGQKE LVDKNIDRFIPITKLKYYFAVDIMYVGRKLGLLFFPYLHQDWEV QYQDTPVAPRFVDNAPDLYIPAMAFITYVLVAGLALGTDRFS PDLLGLQASSALAWLTLEVLAILLSLYLVTVNTDLTIDLVAFL GYKYVGMIGGVLMGLLFGKIGYLVLVGCCVAIFVMIRTLRLK

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6043	403	599	ILADAAAEVGPVRGARNQLRMYLTMAVAAQPMMLYWLTFHLVR LCLEFFFPFCATPVLPPLSLISAL/CLSHLSVSSWFCPCQPPLFC PLPPLQNKTAAGSLSTEQSERG
6044	793	412	KLEMWNFTLISKVKISREVTMIASKFGIGQQVRHSLGLYLVVV DIDPVYLSLSESPDELAVNDELRAAPWYHVVMEDDNLVPVHTYL AEAQLSSELQDEHP\EQPSMDELAQTIRKQLQAPRLRN
6045	155	2299	SPLPQVAAMNYLRRRLSDSNFMANLPNGYMTDLQRPQPPPPPPG AHSFGATPGPGTATAERSGVAAPASPAAPSGSSGGGGFFSSL SNAVKTATAAAATFSEQVGGSGGAGRGGAASRVLLVIDEPHT DWAKYFKGKKIHGEIDIKVEQAEFSDNLNVAHANGGFSVDMEV RNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGIPS VNSLSVYNFCCKPWVFAQMVRLHKKLGTETEFPLIDQTFYPNHK EMLSS\TTPVVKMGHGTLMGWGKVKVDNQHDQDIASVVALT KTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWKNTGSA MLEQIAMS DRYKLWVDTCEIFGGLDICAVALHGXGDRDHIE VVGSSMPLIGHDQDEDKQLIVLVNKAQALPQRRORDASPGR GSHGQTPSPGALPLGRQTSQQPAGPPAQRPFPQGGPPQPGPGF QRQGPPLQRPFPQGGQHLGSLGPPAGSPPLPRLPSPTAPQGP ASQAAPPTQGGGRQSRPVAGGPGAPPAARPPASPSQRRQAGPPQ ATROTSSVSGPAPPKASGAPPGGQRRQGPFPKPPGAGFTRQASQ AGPVPTGPPPTTQPRPSPGPGFAGRPKQLAQKPSQDVPPFATA AAGGPPHPQLNKSQSLTNAFNLPEPAPPRPSLSQDEVKAETIRS LRKSFASLFS
6046	212	1075	EGLTGPCERVFPFLGRGPPHAGTRAGHRAVRWAGPESLPPLPR SLIMDSPRAGTHQGGLDAETEVGADRCTSTAYQEQRPQVEQVGK QAPLSPLGAMGGPGPGFCEDPAGAGGAGAGGSEPLVTVTVQCA FTVALRARRGADLSSRLALLGOALPHQ\AQLGQLSYLAPGDEGH WVPIPEESLQRAWQDAAACPRGLQLQCRGAGGRPVLYQVVAQH SYSAQGPEDLQFRQGDVTVDLCEVDQAWLEGHCDGRIGIFPKCF VVPAGPRMSGAPGRLFRSQGDQ
6047	49	1405	PVLVTSLRMREADTLRPPQLMEVSADIISTVFNHTGELLATGD KGRGVVIFQREPESKNAPHSQGEYDVYSTFQSHPEFDYKLSLE IEBKINKIKWLPOQNAHSLSTNDKTIKWKITERDKRPEGYN LKDEEGKLKDLSTVTSLQVPVLKPMDLMEVSPRRIFANGHTYH INSISVNSDCBTYMSADDLRLNHLAITDRSFTP\NIVDIKPA NMEDLTEVITASEFPHHCNLFVYSSSKGSLRLCDMRAALCDK HSLFEEPEPDSNRSFFSEIIS\SVSDVKFSDRYMLTR\DYL TVKVDL\NMEARPIETYQVHDYLRSLKSLYENDCIFDKFECA WNGSDSVIMTGA\YNNFRMFDRNTKRDVTL\EASRESSKPRAV LKPRRVCVGGKRRRDDISVDSLDFTKKILHTAWHPAENIIAIAA TNNLYIFQDKVNSDMH
6048	1	3194	GIRTPKFCDSPTSDLEMRNGRGRKMRPNSTPVTATASDS KGTSSSKTRAGANSKGRGSONSSEHRPPASSTSEDEVKASPS ANKRKNKPLSDMELNSSSEDSKGSKRVRTNSMGSA TGPLPGTKV EPTVLDRNCPSVPLIDCPHPNCNKYKHINGLYHQAHAHTDDD SKPEADGDSEYGEPIHLHADLGSCNG\ASVSQK\GSLSPARSAT PKVRLVEPHSPSPSSKFSKGLCKKKLSGEGDIDLALSNDSGD DGPSVMDETSNDADFSLERKCKEKEKCKKPSLKEKIPSKSLK SARPI/APLAIPPQQIYTFQTATFTAASPGSSSGLTATVAQAMP NSPQLKPIQPKPTVMGEPFTVNPALTPAKDKKKDKKKKESSE LESPLTPGKVCRAEKGSPFRESSGNGMKMEGLLNGSSDPHQSR LASIKAEADKIYSFTDNAPSPSIGSSRLNTTPTQPLTPLHV TQNGAEASSVKTNSPAYSDISDAGEDGEGKVDVSKSDAEQLVK EGAKTLFPQPQSKDSPYYQGFESYSPSYAQSSPGALNPSSQ AGVESQALKTKRDEEPESIEGKVKNDICEKKPELSSSSQPPSV IQORPNMYMSLYNQYAYVPPYGYSDQSYHLLSTNTAYRQQ YEEQKQKQSLQEQQRGVDDKKAEMGLKEREALKKEWKQKPSIPP TLTKAPSLTDLVKGSGPKAKEPGADPAKSVIIPKLDSSSKLPQ APEGLKVKLSDASHLSKEASEAKTGAECGRQAEMDPIILWYRQEA EPRMWTYVYPAKYSDIKSEDERWKEERDRKLKEERSRSKDSVVK

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			EDGKESTSSDCKLPTSEESRLGSKPRPSVHVFPVSSFLTQHQSYPYMHGYSYSQSYDPNHPYSRMPAVMMONYPGSYLPSSYSFSPYGSKVSGGEDADKARASPSVTCSSSESALDILQGHASHYKSKSPTISDKTSQERDRGGCGVVGSGGSCSSVGGASGGERSVDRPRTSPSQRLMSTHHHHHLLGYSLPAQYNLPAAGLSSTAIVASQQGSTPSLYPPRR
6049	215	1089	AMTGVFDRRVPSIRSGDFQAPFQTSAMHHPQESPTLPESATDSJYYSPTGGAPHGYCSPTSASYG\KALNPYQYHGVNVSAGSYPAKAYADYSYASSYHQYGGAYNRVPSATNQPEKEVTEPEVRMVNGKPKKVRKPRTIYSSFQLAALQRRFQKTQYLALPERAEALASLGLTQTQVKIWFQNKRSKIKKIMKNGEMPPEHSPSSDPMACNSPQSPAVWEPQGSRRSLSHHPAHPPSTSNQSPASSYLENSASWYTSAASSINSHLPPPGSLQHPLALASGTLV
6050	566	1718	XGLERTCCAMEESDSEKTEKENLGPMDPPLGEPG\GSLGWVLPNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATILDRIHSLQINSSLSTYSLVDSVGNTKTFDVEHSHVRFGLNLVLNLWDCCGGQDTFMENYFTSQRDNI FRNVEVLIYVFDVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQDRLIFKEREEDLRLSRPLECSCFRTSIWDETLKAWSSIVYQLIPNVQOLEMNLRNFAEII EADEVLLFERATFLVISHYQCKEQDRAHFEKISNIIKQFKLSCSKLAASFQSMVNRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPKQCLLMR
6051	566	1718	XGLERTCCAMEESDSEKTEKENLGPMDPPLGEPG\GSLGWVLPNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATILDRIHSLQINSSLSTYSLVDSVGNTKTFDVEHSHVRFGLNLVLNLWDCCGGQDTFMENYFTSQRDNI FRNVEVLIYVFDVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQDRLIFKEREEDLRLSRPLECSCFRTSIWDETLKAWSSIVYQLIPNVQOLEMNLRNFAEII EADEVLLFERATFLVISHYQCKEQDRAHFEKISNIIKQFKLSCSKLAASFQSMVNRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPKQCLLMR
6052	566	1718	XGLERTCCAMEESDSEKTEKENLGPMDPPLGEPG\GSLGWVLPNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATILDRIHSLQINSSLSTYSLVDSVGNTKTFDVEHSHVRFGLNLVLNLWDCCGGQDTFMENYFTSQRDNI FRNVEVLIYVFDVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQDRLIFKEREEDLRLSRPLECSCFRTSIWDETLKAWSSIVYQLIPNVQOLEMNLRNFAEII EADEVLLFERATFLVISHYQCKEQDRAHFEKISNIIKQFKLSCSKLAASFQSMVNRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPKQCLLMR
6053	201	1704	KGTEMNKSRRWQSRRRHGRSHQQNFWFRLRDSERDSRAAQPAPHDSGHGDDSPSTSSGTAGTSSVPELPFGFYFDPEKKRYFRLLPGHNNCNPLTKESIRQKEMESKRLRLQEDRRKKIARMGFNASSMLRKSQGLFNLVTNYCHLAHELRLSCMERKKVQIRSMDPALASDRFNLI LADTNSDRLFTVNDVTVGSGKYGI INLQSLKTPTLKVFMHENLYFTNRKV\NSVCWASLNHLDSHILLCLMGLAETPGCATLLPASLFVNSHPAGIDRPG\MLCSFRIPGAWSCAWSLINIQANNCFTGLSRRVLLTNVVTGHRQSFGTNSDVLAQQFALMAPLLFNGCRSGEIPAIIDLRCGNQGGKWKATRLFHDSAVTSVRILQDEQYLMASDMAGKIKLWDLRTTKCVRQYEGHVNEYAYLPLHVHEEGILVAVGQDCYTRIWSLHDARLLRTIPSPYPASKADIPSVAFSSRLGGSRGAPGLLMAVGQDLYCYSYS
6054	1	1054	PPIARLQEFGTSSRRHMAAPSGVHLLVRRGSHRIFSSPLNHTYLIHQSSSQRRNFFRRQRDISHSIVLPAAVSSAHPVPKHKKPDYVTTGIVPDWGDSEIVKNEDQIQGLHQACQLARHVLLAGKSLKVDMTIEEIDALVHREIISHNAYPSPLGYGGFPKSVCTSVNNVLCHGI?DSRPLQDGIINIDVTVYNYNGYHGDTSFTLVGNVDECGKKLVEVARRCRDEAIAACRAGAPFVIGNTISHITHQNGFQVCPHFVGHGIGSYFHHPEIWHHANDSLPMEEGMFTIEPIITEGSPREFKVLDAWTVVSLD/TSKVSAQFHTVLITSRGAQILTKLPHEA

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6055	421	2364	PPYFLLSFLAWLYGQSDRTETDISQSAGPPPGTLQCSALHHPD GCANCSRFRCDSPACQCHTHVFPGNALNGVQPPPELSRRLALI SSREPPRRKKKKSQTETGKERERTSFLTQGGKRFELQHLGAGICM TLITGDSIVSAEAVDHTMANRELAPKAGDVIKVLDAKNDW WVGQIDDEEGWFPASFVRLWVNHDEVEEGPSDVQNGHLDPNSD CLCLGRPLQNRDQMRANVINEIMSTERHYIKHLKDICEGYLKQC RKRDMFSDQELKVI FGNIEDIYRFQMGFVRDLEKQYNNDDPHL SEIGPCFLEHQDGFWIYSEYCNHLDACMELSKLMKDSRYQHFF EACRLQQMIDIA\IDGFLLPVQKICKYPLQLAELLKYTAQDH SDYRVAAALAVMNVTTQQLINERKRRLCKYPLQIAQWQASVLDWE GED\LDRSSELIYTGEMAWIYQP\YGRNQQRVFFLDHQMVLCK KOLIRRDILYYKGRIDMDKYEVVDIEDGRDDDFNVSMKNAFLKH NKETEETHLFFAKKLEEKIRWLRAFREERKMVQDEKIGFEISE NQKROAAMTVRKVPKQKGVNSARSVPPSPPPQDPLHGQYLV \DGLAQSQVFEFTEPKRSQSPFWQNFSLTFPFK
6056	43	3358	SGGRGPVRVRSEQLSPSAEQVSQISQISLGRRLSSLPSPPSRA LAPTRAPDTALTMEVAEVESPLNPSCKIMTFRPSMEEFREFNK YLAYMESKGAHRAGLAKVI PPKWKPRQCYDDIDNLLIPAPIQQ MVTGQSGLFTQYNIQKKAMTVKEFRQLANSKYCTPRYLDYEDL ERKYWKNTLTFVAPIYGADINGSIYDEGVDEWNIARLNTVLDVVE EECGISIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGEP KSWYAIIPPEHGKRLERLAQGFPPSSSQGDAFLRHKMTLISPSV LKYGIIPFDKITQEAEGFMITFPYGYHAGFNHGFNCAESTNFI VRWIDYGVAKLCTCRKDMVKISMDIFVRKFPQDRYQLWKQKGD IYTIIDHTKPTPASTPEVKAWLQRRRKVRKASRFQCARSTSKRP KADDEEEVSDVDGAEVNPNDSVTDDLKVKSEKSEAAVKLRNTEA SSEESSASRMQVEQNLSDHIKLSGNSCLSTS VTEDIKTEDDKA YAYRSVPSISSEADDSIPLSTGYEKPEKSDPSLSWPKSPESCS SVAESNGVLTGEESDVESHNGLEPGELPAVPSGERNSFKVPS IAEGENKTSKSWRHPLSRPPARSPMTLVKQQAPSDEELPEVLSI EEVEETESWAKPLIHLWQTKPPNFAAEQYFNATVARMKPHCAI CTLLMPYHKPDSSNEENDARWETKLDVVTSEGKTKPLIPCMCF IYSEENIEYSPNAPLEEDGTSLLISCAKCCVRVHASCYGPISH EICDGLWCARCKRNAWTAECCLCNLRGALKQTKNNKWAHVMA VAVPEVRFTNVPERTQIDVGRI PLQRLKLCIFCRHRVKRVSGA CIQCSYGRCPASFHVTCACHAGVL\MEPDDWPFYVNI TCFRHKV NPNVSKAKCEKVISVGQTVITKHNTRYYSRVMVTSQTIFYEV MFDDGSFSRDTFFPEDI VSRDCLKLGPPEGEVVQVKWPDGKLY AKYFGSNIAHMYQVEFEDGSQIAMKREDIYTLDEELPKRVKARF VSAGRCHLGTQVNSLSSPHVSAQQETYLGFVINSKXSQCNI LSGT
6057	1	853	FVARLKEQEGGGLGPRKEKGRARGRERRRMQLTRCCFVFLVQ GSLYLVICGQDDGPPGSEDPERDDHEGQPRPRVPRKRGHISPKS RFMANSTLLGLLAPPGEAWGILGQPPNPNHSPPPSAKVKKIFG WGDFYSNIKTVALNLLVTGKIVDHGNGTFSVHFQHNATGQGNIS ISLVPPSKAVEFHQEQQIFIEAKASKIFNC\RMWEKVE\RGRR TSLFTHDPAKICSRDHAQSSATWSQSPPFKVVCVYIAPYSTYR LVQKVC PDYNYHSDTPYPSG
6058	1	986	HPLPSASLGLPSVSLGVSLCVRSALEAVVPMPLPKRRRARVGS SGDAASSTPPSTRFPGVAIYLVEPRMGRSRAFLTGLARSKGFR VLDACSSSEATHVMEETSAAEAVSWQERRMAAAPPGCTPPALLD ISWLTESLGAGQPVVPECRHRELVAGPSKGPLSPAWMPAYACQR PTPLTHHNTGLSEALEILAEAGFEGSEGRLLTFCRAASVLKAL PSPVTTLSQLQGLPHFGEHSSRVVQELLEHGVCCEEVERVRSE/ RLFTQIFGVGVKTADRWRBGLRTLDDLEQPKLTQQQKAGEP SREAGPWASLNLCTLDPSASTP
6059	2	3650	QQDFESLADLTDHRAHRCPGDGGDDPQLSWVASSPSSKDVASPT QMIGDGDGLGEEGGTGLPYPCQFCDKSFIRLSYLRHEQIH SDKL2FKCTYCSRLFKHRSRDRHIKLTGDKKYHCECEAAFS RSDHLKIHLKTHSSSKPFKCTVCKRGFSSTSLQSHMQAHKKNK EHLAKSEKRAKDDFMCDYCEDTFSQTEBLEKHVLTTRHPQLSEK

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			ADLQCIHCPEVFDENTLLAHIHQAHANQKHKCPMCPE\QFSSV EGVYCHLDHRQPDSSNHSVSPDPVLGVSASMSSATPDSSASV ERGSTPDSTLKLPRGQKKMRDDGQGWTKVYVSCFYCKRDFNSL AVLEIHLKTIHADKPOQSHSTCQICLDSMPTLYNLNEHVRKLHKN HAYPVMQFGNISAFCNYCPEMFADINSIQEHIRVSHCGPNANP SDGNNAPFCNQCSMGFLTTESSLTEHIQ\Q\AHCSVGSAKLESFV VQPTQSFMEVYSCFYCTNSPIFGSILKLTKHIKENHKNPLAHS KKSKEQSPVSSDVEVSSPKRQRLSASANSISNGEYPCNQCDLK FSNFESFQTHLKLHLELLLRKQACPOCKEDFDSQESLLQHLTVH YMTTSTHYVCESCDKQFSSVDD\LQKH\LLDMPHPLCCTHCT\L CQEVFDS\KVS\QVHLAVKHSNEKKMYRCTACNWDPRKEADLO VHVKSHSLGNPAKAKHCIFCGETFSTEVBLQCHITTHSKKYNCK FCSKAFHAIILLEKHLREKHCVFDAATENGTVANGVPPMATKKAE PADLQGMILLKNPEAPNSHEASEDDVDASEPMYGCDCGAAATME VLLQNHRLRDHNIIRPGEDDGSRRKAEFIKGSKCNVCSRTFFSE NGLREHLQTHRGPAKHYMCPIGGERFPPSLTLTEHKVTHSKSLD TGTCRIKMPLOQSEEEFIHCCMHDPDLRNSLTGFRVCVCMQTVT STLELKIHTFHMOKLAGSSAASSPNGQQLKLYKCALCLKEFR SKQDLVKLDVNLPGYGLCAGCMARSANGQVGLAPPEPADRPA GLRCEPESVKFESAEDLESMDVDRDLTFTSGPRKGTQTSFV PRKKTQCIKCQMTFENEREIQIHVANHMISEGINHECKLCNQM FDSPAKLLCHLIEHSFEGMGFTKCPVCFVTVQANKLQQHIFA VHGOEDKIYDCSQCPQKFFQTELOQNHMTMSQHAQ
6060	2145	202	SYEIVGKNKLEVNHSQKALCKKCLPSRLPLGENLPLLDGRFR KEPRSRGSRERDNMLLHHSCLCFRSLWFLAVLLSLAPASS DISASRPNILLMADDLGIGDIGCYGNMTPTNIDRLAEDGVK LTQHISAASLCTPSRAAFLTGRYPVRSGMVSSIGYRVLQWTGAS GGLPTNETTFAKILEEKGYATGLIGKWHGLNCESASDHCHPL HHGFDFHYGMPFSLMGDCARWELSEKRVNLEQKLNFLQVLA ALTLVAGKLTPLIPVSWMPVIWSALSALLASSYFVGLIVHA DCLFMRNHTITEQPMCFQRTTPLLQEVASFLLKRNKHGPFLLFV SFLHVHIPLITMENFLGKSLHGLYGDNVKEMDWMVGRILDTLDV EGLSNSTLIYFTSDHGGSLNQLGNTQYGGWNGIYKGGKMGGW EGGIRVPGIFRWPGVLPAGRVIGEPSTLMDVFTTVVRLAGSEVP QDRVIDGQDLPLLLGTAQHSDEFLMHYCFRFLHAARWHQRDR GTMWKVHFVTPVFQPEGAGACYGRKVCPCFGEKVVHDDPFLLD LSRDPSETHILTPASEPVFYQVMER\VOQAVWEHQRTLSFVPLQ LDRLGNIWRPWLQPCCGPFFLCWCLREDDPQ
6061	110	1330	MNIHMKRRTIKNINTFENRMLMLDGMFAVRVKTLESEQSPN VHNYPDMEAVPPLLNNVKGEPEDSLSDVDFQTQTEPVDLSINK ARTSPTAVSSSPVSMASASSPSTSTSSSSSSRLASSPTVITS VSSASSSTVLTGFLVASASGVGGQQLHIIHPVPSSSPMNLQ SNKLSHVHRIPVVVQSVPVVYTAVRSPGNVNTIIVPPLLEDGRG HGKAQMDPRGLSPRQSKSDSDDDLNVTLDSVNETGSTALSIA RAVQEVHPSVSRVRGNRMNNQKFPCSI SPFSIESTRRQRTVLN PPDSRKTAYSTDCCF\EGLOQKLYTKSSSPGRVHRRTHTEKPY KCTWEGCTWKFARSDELTRHYRKHTGVKPKACDCDRSPSRSDH LALHRRRHMLV
6062	71	1079	ETMAKNGPENCEDCHILNAEAFKSKKICKSLKICGLVFGILALT LIVLFWGSKHFWPEVPKAYDMEHTFYSNGEKKKIYMEIDPVTR TEIFRSGNGTDETLVHDFKNGYTGIFYVGLQKCFIKTQIKVIP EFSEPEEIDENEEITTTFFEQSVIWPVPAEKPIENRDLKNSKI LEICDNVTMYW\INPTL\ISGTFKQLHNFAPILVSELQDFE BEGEDLHFPANEKKGIEQNEQWVVPQVKVEKTRHARQASEEELP INDYTENGIEFDPMLDERGYCCICRRGNRYCRRVCEPLLGYYP YPYCYQGGRVICRVIMPCNWWVARMGLRV
6063	71	1079	ETMAKNGPENCEDCHILNAEAFKSKKICKSLKICGLVFGILALT LIVLFWGSKHFWPEVPKAYDMEHTFYSNGEKKKIYMEIDPVTR TEIFRSGNGTDETLVHDFKNGYTGIFYVGLQKCFIKTQIKVIP EFSEPEEIDENEEITTTFFEQSVIWPVPAEKPIENRDLKNSKI LEICDNVTMYW\INPTL\ISGTFKQLHNFAPILVSELQDFE

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			EEGEDLHFPANEKKGIEQNEQWVVPQVKVEKTRHARQASEBELP INDYTENGIEFDPMLEDERGYCCYICRRGNRYCRRVCEPLLGYPY YPYCYQGGRVICRVIMPCNWWVARMGRV
6064	913	311	NLPQSLPRPTEHSPFPYSLEKMTDLVAVVDVALSDGVHKIEFEHG TTSGRKRVVYVDGKEEIRKEWMFKLVGKBTFFVGAARKATINID AISGFAYEYTLLEINGKSLKKYMEDRSKTTNTWVLHMDGENFRIV LEKQAMDVWCNGKKLETAGEFVDDGTETHFSIGTH\ACYIKAV\ SSG\KRKEGIHTLIVDNREIPEIAS
6065	1153	641	MSVRVARVANVRGLGASYRRGASSFPVPPFGAQQVAELLRDATG AEEAPWAATERRMPGQCSVLLFPQGQSQVVGMRGLLNYPVRV ELYAAARRVLGYDLELSLHGPQETLDRTVHCQPAIFVASLAIV EKLHLQPSVIENCVAAGFSVGEFAALVFAGAMEFAEG
6066	68	3470	VKENMPATRKPMRYGHTEGHTEVCFDDSGSFIVTCGSDGDVRIW EDLDDDDPKFINVGEKAYSCALKSGKLVAVSNNTIQVHTFPEG VPDGIILTRFTTNANHVVENGDGTIAAGSSD\FLVKIVDVMDS QQKTFRGHADAPVLSLSDPKDIFLASASCDGSRVWQISDQTC ISWPLQKCNVDVINAISICRLAWQPKSGKLLAIPVEKSVKLYRR ESWSHQFDLSDNFISQTLNIVTWSPCGQYLAAGSINGLIIVWNV ETKDCMERVKHEKGYAICGLAWHPTCGRISYTDAGNGLGLENV CDPSGKTSSSKVSSRVEKDYNDLFDGDDMSNAGDFLNDNAVEIP SFSKGIIINDEDEDELMMASGRPRQRSHILEDDENSVDISMLKT GSSLLKEEEDGQEGSIHNLPLVTSQRPFYDGPMPPTPRQKPFQS GSTPLHLTHRFMVVNSIGIIRCYNDEQDNAIDVEFHOTSIIHAT HLSNTLNYTIADLSHEAILLACBSTDELASKLHCLHFSWDSK EWIIDLQONEDIEAICLGQGWAAAATSALLLRFTIGGVQKEVF SLAGPVVSMAGHGEQLFIVYHRTGTFDGDQCLGVQLLELGKKKK QILHGDPLPLTRKSYLAWIGFSAECTPCYVDSEGIVRMLNRGLG NTWTPICNTRHECKGSDHYVWVGIHENPQQLRCIPCKGSRFP TLRPAVAILSFKLPCYQIATEKGQMEEQFWRSVIFHNHLDYLA KNGYEYESTKNQATKEQQLLMKMLALSCKLEREFRCVELADL MTQNAVNLAIKYASRSRKLILAQKLSLAVEKAAELTATQVEE EEEDFRKKNAGYSNTATEWSQPRFRNQVEEDAEDSGEADDEE KPEIHKPGQNSFSKSTNSSDVSAGSGAVTFSSQGRVNPFKVSAS SKEPAMSMNSARSTNILDNMGKSSKKS\TALSRTTNEKSPIIKP LIPKPKPKQASASYFQKRNSQTNKTEEVKEENLKNVLSPTPAI CPPQNTENQRPKTGFQMWLBENRSNLSNDNPDFSDEADIIEGEM IIFRVLSTEERKVVANKAKGETASEGTEAKKRKRVRVDESDETEN QBEKAKENLNLSSKKQKPLDFSTNQKLSAFAPKQE
6067	858	321	LPWQRLGVLLSRGKMAVTGWLESLRTAQKTALLQDGRKRVHYLF PDGKEMAEYDEKTSSELLVRKWRVKSALGAMQWQLEVGDPAPL GAGNLGPPELIKESNANPIFMRKDTKMSFQWRIRNLPYPKDVYSV SVDQKERCIIIVRTTNKKYKKFSIPDLDRHQLPLDDALLSFA\T PTAP
6068	13	1730	GSKMADLANEEKPAIAPPVVFQKDKGQKSPAEQKNLSDSGEEP RGEAEAPHHGTGHPESAGEHALEPPAPAGASASTPPPPAPEAQL PPFPRELAGRSAGSSSPGGEDSDREDGNYCPPVKRERTSSLTQ FPPSQSEERSSGFRLKPPTLIHQAPSAGLPSQKPKQQRSVLR PAVLQAPQPKALSQTVPSSGTNGVSLPADCTGAVPAASPDAAW RSPSEADEVCALKEKEPQKNESNASEBEACEKKDPATQQAIV FGQNLDRVKLINESVDEADMENAGHPSADTPTATNYFLQYISS SLENSTNSADASSNKVFVGQNMSESVLSPPKLNEVSSDANRENA AEESGSESSQEAPEKESLABSAAAYTKATARKCLLEKVEVIT GEEAESNVLMQCKLFVFDKTSQSWVERGRGLLRNDMASTDG TLQSRSLDAGPRGSLR\LIILNTKLWQMIDKASEK\SIKITAM DNEQGVKVFILISASSKDTGQVYAALHHRILALRSRVEQEQA MPAPEPGAAPSNEEDSDDDVLAAPSATAAGAGDEGDGQTGTS T
6069	583	27	PTRPQAGSSSAMAARLGKRVLSKLQSPSRARGPGGSPGGLOK RHARVTKYDRRELQRRLDVEKWDGRLEELRYRMEADMPDEIN IDELLELESEERSRKIQGLLKSCKGKPVDFIQELLAKLQGLHR

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			Q/PGLRQPSFSP/DGQPSAPFQGPAGARTASPLTLALFPGPPEP RPALLCVLSCT
6070	478	858	IRVTVDGEFLHYIFPLQLDSEFW/RFTETHRGRHF/QVTLTAE TDCRYVSWRRKKLYLLFAQHRYISRLFSVLIGSDIADKLYALND RVYIGKRYHYDIRLPNFYQMSPTPEIRRSPLTQHFQNSRRY
6071	2	1654	HEARTKGNMALARP/VRLFSLVTRLLADPRGLTVRSPEDEPLPV VRIPVALQRLQEQRSRRRNLPFPVLVVRPGPLVSARRPELNQ ARLTGRWRERAPLASQGWKSRARRRDHFSIERAQGEAPAVRKLS SKGSFADLCAGWKPRVLHALQE\AAPEVVQ\PTTVQSSSTIPSLLR GRHVVCAAETGSGKTL SYLLPLLQRLLG\HPSLDLSLPAPRGL VLVPSRELAQQVRAVAQPLGRSLGLLVRLDLEGGHGMRRIRLQLS RQPSADVLVATPGALWKALKSRSLISLEQLSFLVLDDEADTLLED FLRLVDYILEKSHIAEGPADLEDPFNPKAQLVLVGATFPEGVGQ LLNKVASPDVTTITSSKLHCIMPHVKQTFRLKLGADKVAELVH ILKHRDRAERTGPSGTVLVFCNSSSTVNWLYILDHDKIQHLRL QGQMPALMRVGIFQSFQKSSRDILLCTDIASRGLDSTGVVELVNV YDFPPTLDQYIHRAGRVRGVSEVPVGTVISFVTHPVDVSLVQKI ELAARRRRSLPGLASSVKEPLPQAT
6072	1	742	KMERTEMMPTINSQLEFKSKFPFLVSSSRWLVRKRGELTAYVEDT VLSRRTSKQQVYFFLPNDVLIITKKKSESYNVNDYSLRDQLL VESCDNEELNSSPGKNSSTMLYSRQSSASHLPTLTVLSNHANEK VENLLGAETQSERARNITALGHSSGKPPADRTSLTQVEIVRSFT AKQPELSLQVADVLI\YQRVSDGWYEGER\LRDGERGWFPME CAKEITCQATIDKNVERMGRLLGLETNV
6073	620	860	PCRRGLARPLSRPG/SILVHCAVGVSRSATLVLAYLMLYHHLT LVEAIIKKVKDHRIIPNKGFLRQLLALDRRLRQGLEA
6074	168	1110	PGARCMATELQCPDSMPCHNQVNSASTPSPBQLRPGDLILDHA GGNRASRAKVILLTGVAHSSSLPAELDSGACGGSSSLNSEGSGSG DSSSYDAPAGNSFLBEDCELSRQIGAQLKLLPMNDQIRELQTIIR DKTASRGDFMFSADRLIRLVVEEGLNQLPYKECMVTPTGYKYE GVKFEKGNCGVSI MRSGEAMEQGLRDCRSIRIGKILIOQDEET QRAKVYAKFPFDIYRRKVLLMYPILQTG\NTVIEAVKVLIEHG VQPSVIIILSLFSTPHGAKSIIQEFPEITILITEVHPVAPTHFG QKYFGTD
6075	329	1091	PPTCQOQVEVHH\YGYVPILGNKTLPSRCHQCQVIVSSSHLLGT KLGPETIERAECTIRMNDAPTTGYSADVGNKTTYRVVAHSSVFRV LRRPQEFVNRTFETVFIFWGPSPKMQPKPQGLVVRVIOAGLVFP NMEAYAVSPGRMRQFDDLFRTGETGKDRKSHSWLSTGWFTMVIA VELCDHVHVYGMVPPNYCSQRPRLQRMPIHYHYEPKGPDECVTYI QNEHSRKGNNHRRFITEKRVFSSWAQLYGITFSHPST
6076	1721	107	HPSPTEAPRVQHLTMDCTWRILFLVAAATGTHAQVLVQSGAEV KKPGASVKVSKVSGYTLTELSMHVVRQAPGKGLEWMAFDPED GETIYAQKFQGRVTMTEDTSTDTAYMELSSLRSEDVAVYCATD HGDYAFDIWQGTMTVTVSSAPTAKPDVFPPIISGCRHPPKDNSPVV LACLITGYHPTSV\TVTWYMGTSQA\QRTFPEIQRRDSYYMTS SQLSTPLQQRQGEYKCVVQHTASKSKKEIFRWPESPKAQASSV PTAQPOAEGSLAKATTAPATTRNTGRGGEKKKEKEKEEQEERE TKTPECPSTQPLGVYLLTFAVQDLWLRDKATFTCFVVGSDLDK AHLTWEVAGKVPTGGVEEGLLERHNSGSSQSHSRLTLPRSLWNA GTSVTCITLHNPSPQRLMALREPAQAPVKLSLNLASSDPPE A\ASWLLCEVSGFPPNILLMWLEDHGEVNTSGFAPARPLPKF\ RSTTFWA\WSVLRVPAPPSPQATYTCVSHEDSRTLLNASRSL BVSYYTDHGPMPK
6077	3687	1268	LLPDMNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECTQ AGPNCGWCTNSTFLQEGMPTARSACDDEALKKKGCPPDDIENPR GSKDIKKKNVTNRSGTAEKLPEDITQIQPQLVLRSLRSGE QTFTLKFKRAEDYPIDLYLM\DLSSYMKDDLENVKSLGTDLMN EMRRITSDFRIGFSGFVEKTVMPYISTTAKLRNPCTSEQNCTS FFSYKNVLSLTNKGVEFENELVGKQRLSGNLDSPGGGFDAIMQVA VCGSLIGHRNVTRLLVFTDAGFHAGDGKLGIVLPNDGQCHL

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			ENNMYTMSHYVDYPSIAHLVQKLSENNITQIFAVTEEFQPVYKE LKNLIPKSAVGTLSANSSNVIQLIIDAYNSLSSEVILENGKLS GVTISYQSY\CKNGVNGTGNGRKCNSISIGDEVQFEISITSNK CPKSDSDSKIRPLGFTEEVILQYICECEQCEGIPESPCKH EGNGTFECGACRCNEGRVGRHCECSTDEVNSEDIGCFTARKENQ FQKSASNHGRVPSAGQCVCRRDNTNEIYSGKFCECDNFNCDS NGLICGNGVCKCRVCECNFNNTYGSACDCLDSTCEASNGQIC NGRGICECGVCKCTDPKFGQGTCEMCQTCGLVCAEHKECVQCRA FNKGEKKDCTQECYFNITKVESRDKLPQPVQDPVSHCKEKD VDDCNFYFTYSVNGNNEVMVHVVENPECPGTGDIIPVAGVVG IVLIGLALLLIWKLLMIHDDRREFAKFEKEKMNKWDGTGENPIY KSAVTVVNPKYEGK
6078	1426	180	ETEDVMELLEEDLTCPICCSLFDDPRVLPCSHNFCKKCLEGILE GSVRNSLWRPVFKCPTCRKKTFSYWELIPLQVNYSLKGIWEKY NKIKISPKMPVCKGH\LGQPLNIF\CL\TDMQLDL\CGIC\ATR GEHTKHVFCSEIDAYAQERDAFESLPQSFTWRRGDALSRLDITL ETSKRKSLLQTKDSKVKKEFEKLQHTLDQKNEILSDFTMK LAVMQAYDPEINKLNTILOEQRMFNLBAFADVSEPIVFLQOM QEFREKIKVIKETPLPPSNLPASPLMKNFDTSQWEDIKLVVDVK LSLPQDTGTTFISKIPWSFYKLELLILLGLVIVFGPTMFLWSL FDDLATWKGCLSNFSSYLTKTADFIEQSVFYWEQVTDGFFIFNE RFKNFTLVVLNNVAEFVCKYKLL
6079	1586	141	ATARDLGCARRIDRVVMESTPSRGLNRVHLQCRNLQEFGLGSLP GVLDRLYGHPATCLAVFRELP SLAKNWVMRMLFLEQPLPOAAVA LWVKKEFSAQEESTGLSLGLRIWHTQLLPGGLQGLILNPIFRQ NLRIALLGGGKAWSDDTSQLGPDKHARDVPSLDKYAEERWEVVL HFMVGSPSAAVSQDLAQLLSQAGLMKSTEPGEPPCITSAGFQFL LLDTPAQLWYFMLQYLQTAQSRGMDLVEILSFLFQLSFSTLQKD YSVEGMSDSSLNLFQHLREFGLVFORRKRKRRYYPT/RALAINL SSGVSGAGSTVHQPGFIV\VETNYRLYAYTESELQIALIALFSE MLYPPF\NMV\ARVTR\ESVQQAIASGITAQIIHFLRTRAHP VMLKQTPVLPPTITDQIRLWELERDRLRFTGVLNQLFSQVDF ELL\LAHAPKLGVLVFE\NTPAKRLMVVTPAGHSVDRKFWKROK HSS
6080	1	1199	LETIDHVGEPAMAAQAAGVSRQRAATQGLGSNQNALKYLGQDPK TLRQQCLDSGVLFKDPEFPACPSALGYKDLGPGSPQTQGIWKR PTCLCPSPQFIVGGATRTDICOGLGDCWLLAAIASLTLEELL YRVVPRDQDFQENYAGIFHFQPLCPPSP\FWQYGEWVEVVIDDR LPTKNGQLLFLHSEQGNFWSALLEKAYAKINGCYEALAGSTV EGFEDFTGGISEFYDLKKPPANLYQIIRKALCAGSLGCSIDVY SAAEAIAITSQKLKSHAYSVTGVEEVNFQGHPEKLIRLRNPWG EVEWSGAWSDDAPEWNHIDPRRKEELDKKVEDGEFWMSLSDQFV QFSRLIEICNLSPDLSSEEVHKWNLVLFNGHWTRGSTAGCQNY PGSS
6081	3	865	EMLPLLLPLPLLWA/GALAQDARFRLEMPESVTVQEGLCIFVHC SVFYLEYGKWDSTPAYGHWFRGVSDQETPVATNNSTQKVQKE TQGRFHLLGDPNRNCSLSIRDARRRDNGSYFFWVARGRTKFSY KYSPLSVYVTALTHRPDILPEFLKSGHPSNLTCSPVPWVCEQGT PPIFSWMSAAPTSLGPRTLHSSVLTIIIPRQDHGTNLIQVTFP GAGVTERTIQLSVSWKSGTVBEVVVLAVGVVAVKILLCLCLI ILSFHKKKAVRAVEVENYVAVMG
6082	283	1288	EARSPGPTQTRTAPGLAAGLAQPAALRLLSRPSPAAMDGDGD PESVGQPEEASPEEQPEEASAEERPEEQEEEEAAAAA\Y\LDE LPEPLLA/LRVLAALPRHE\LVQACR\LVCLRWKELVDGAPLWL LKQEQEGLVPEGGVEERDHWQFYFLSKRRRNLLRNPCGEEDL EGWCDVEHGGDGRVVEELPGDSGVEFTHDESVKCYFASSFWCR KAQVIDLQAEGYWEEELDTTQPAIVVWDVYSGRSDAGCLYBLTV KLLSEHENVLAEFSSGQVAVPQDSGGGWEISHTFTDYGPQVVR FVRFEHGGQDSVYWKWGFARVTNSSVWVEP
6083	1865	309	KQWCAERRGLGMSLADELLADLEAAEEBEGGSYGEEEEPATE

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			DVQEEETQLDLSGDSVKTI AKLWDSKMF AEIMMKIEEYISKQAKA SEVMGPVEAAPEYRVIVDANNLTVEIENELNIIHKFIRDKYSKR FPELES LVPNALDYIRT VKELGNSLDKCKNNENLQQILT NATIM VVSVTASTTQGGQLS EEEELERLEEACDMALELNASKHRIEYVE SRMSFIAPNLSIIIGASTAAKIMGVAGGLTNLSKMPACNIMLLG AQRKTL SGFSSTSVLPHTGYIYHSDIVQSLPPIPPPFSVAP\DL RRKAARLVAAKCTLAARVDSFHSTEGKVGVELKDEIERKFDKW QEP PPVKQVKPLPAPLDGQRKKRGRRYRKMKERLGLTEIR\KQ ANRMSFGEIEEDAYQEDLGFS LGHLGKSGSGRVRQTQVNEATKA RISKT LQRTLQKQSVVYGGKSTIRDRSSGTASSVAFTPLQGLEI VNPQAAEKKVAEANQKYFSSMAEFLKVKGEKSGLMST
6084	1865	309	KQWCAERRGLGMSLADELLADLEEAEEEGGSGYEEEEEPATE DVQEEETQLDLSGDSVKTI AKLWDSKMF AEIMMKIEEYISKQAKA SEVMGPVEAAPEYRVIVDANNLTVEIENELNIIHKFIRDKYSKR FPELES LVPNALDYIRT VKELGNSLDKCKNNENLQQILT NATIM VVSVTASTTQGGQLS EEEELERLEEACDMALELNASKHRIEYVE SRMSFIAPNLSIIIGASTAAKIMGVAGGLTNLSKMPACNIMLLG AQRKTL SGFSSTSVLPHTGYIYHSDIVQSLPPIPPPFSVAP\DL RRKAARLVAAKCTLAARVDSFHSTEGKVGVELKDEIERKFDKW QEP PPVKQVKPLPAPLDGQRKKRGRRYRKMKERLGLTEIR\KQ ANRMSFGEIEEDAYQEDLGFS LGHLGKSGSGRVRQTQVNEATKA RISKT LQRTLQKQSVVYGGKSTIRDRSSGTASSVAFTPLQGLEI VNPQAAEKKVAEANQKYFSSMAEFLKVKGEKSGLMST
6085	2	1456	SGPRSFQGNRAVGRISLGCKRNPEVTLLPGVSSERVRRRRARV GVARVKPGNFWKPSPATQVPR/VPAQVYLPGRGPPPLREGEELVM DEEAYVLYHRAQTGAPCLSFDIVRDHLGDNRELPLTLYL CAGT QAESAQSNRLMMLRMHNLHGTKPPPEGSDEEEEDDEEER KPQLELAMVPHYGGINRVRVSWLGEEPVAGVWSEKQVVEPALR RLLQVVEEPQALAAFLRDEQAQMKPIFSFAGHMGEFALDWSQR VTGRLLTGDCQKNHILWTPDGGSWHVDQRPVFGHTRSVEDLQW SPTENTVFASCSADASIRIWDIRAAPSACMLTTATAHDGDVNV ISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVT SVEWHPQDSGVFAASGADHQITQWDLG/IVERDPEAGDVADPG LADLPQQLLFVHQGETELKELHWHWPQCPLLSTALSGFTIFRT ISV
6086	2419	1357	GAATQHGGAAMNLLPCNPHGNGLLYAGFNQDHGCFACGMENGFVRV YNTDPLKEKEKEQFLEGGVGHVEMLFRCNYLALVGGGKKPKYPP NKVMIWDDLKKKTVEIEFSTEVKAVKLRR\DKIVVVLDSMIKV FTFTHP\HQLHVFE\TCYNPKGLCVLCPNSNNLLAFPQHTGT HVQLVDLASTEKPFVDIPAHEGVLSIALNLQGTRIATASEKGT LIRIFDTSSGHLIQELRRGSQAANIYCINFNQDASLIVSSDHG TVHIFAAEDPKRNKQSSLASASFLPKYFSSKWSFKQVPSGSP CICAFTGTEPNAVIAICADGSYYKFLFNPKGECIRDVYAQFLEMT DDKL
6087	476	1877	QNSQRTGLPITIFSRSPFLLTGSDLCENMPCTCTWRNWRQWIRP LVAVIYLVSI VAVPLCVWELQKLEVG IHTKAWFIAGIFLLTI PISLWVILQHLVHYTQPELQKPIIRILWMPYISLDSWIALKYP GIATYVDTCRECYEAYVIYNFMGFLTNLYLTNRYPNLVLILEAKD QQKHFPPLCCCPWAMGEVLLFRCKLGVLQYTVVRPFTTIVALI CELLGIYDEGNFSFSNAWTLVIINNMSQLFAMYCLLLFYKVLK EELSPIQPVGKFLCVKLVVFSFWQAVVIALLVKGVISEKHTW EWQTVEAVATGLQDFIICIEMLAAIA\HHYTFSYKPYVQEAEE GSCFDSFLAMWDVSDIRDDISEQVRHVGRTVRGHPRKCLFPEDQ DQNEHTSLLSSSSQDAISIASMPPSPMGHYQGFGHTVTPQTTP TTAISDEILSDTIGEKKEPSDKSVDS
6088	1684	689	GASGLVRLLOQGHRCCLAPVAPKLVPPVRGVKKGFRAAFROKE LERQRLRLRCPPPVRRSEKPNWDYHAETQAFGHRLQENFSLDLL KTAFFVNSCYIKSEAKRQQLGIEKEAVLLNLKSNQELSEQGTSF SQTCLTQFLEDEYPMPTTEGIKNLVDFLTGEEVCHVARNLAVE QLTLSSEFPVPAVLQOTFFAVIGALLQSSGPRTALFIRDFLI TQMTGKELFEMWKIINPMGLLVEELKKNVSAPESTRQSG\A

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6089	3	3054	PTALPLVYFVGLYCDKLLIABGPGETVLVAEEAARVALRLKYGF TENRRPWNYSKPKETLRAEKSITAS TRLGIPGSTISSRPRCLAAEGHFLGHSWTGSRAGAHTGAPAW PSRRRLDLPAGGMWRLRRRAVACEVCQSLVKHSSGIGKSLPLQK LHLVSRSIYHSHHTLKLQRPQLRTSFQQFSSLTNLPLRLKLF PIKYGVQPRRNFWPARLATRLKLRLYLILGSAVGGGYTAKKTFD QWKDMIPDLSEYKWIVPDIWWEIDFYIDFEKIRKALPSSSEDLVK LAPDFDKIVESLSLLKDFFTSGSPEETAFRATDRGSESDKHFRK VSDKEKIDQEQEELLHTQLKYQRIERLEKENKELRLKLVQKDD KGIPPFIESLRKSLIDMYSEVLDVLSYDASINTQDHLPRVVVVG DQSAGKTSVLEMIAQARIIFRPGSGEMMTRSPVKVTLSEGGPHVA LFKSSSREFDLTKEEDLAALRHEIELMRKNVKEGCTVSPETIS LNVKGPGLQRMVLDLPGVINTVTSGMAPDTKETIFSISKAYMQ DPNAILLCIQDGSVDAERSIVTDLVSQMDPHGRRITIPVLTQVDL AEKNVASPSRIQIIEGKLFPMKALGYFAVVTGKNSSESIEAI REYEEFFQNSKLLKTSMLKAEQVTRNLSLAVSDCFWKMVRES VEQQADSFKATRFNLETEWKNNYPRLRELDRLFEKAKNEILD EVISLSQVTPKHWEELIQQSLWERVSTHVIENIYLPAAQTMNSG TFNTTVDIKLKQWTDKQLPNKAVEVAVETLQEEFSRPMTEPKGK EHDDIFDKLKEAVKEESI KRHKWDFAEDSLRIQHNALEDRSI SDKQWDAAIYFMEELQARLKDTENAIENMVGPD\WKRWLYW KNRTQEQCVHNETKNELEKMLKCNEHPAYLASDEITTVRKNLE SRGVEVDPSLIKDTWQVYRRHFLKTALNHCNLCRGGFYIYQRH FVDSELECNVDFWRIQRLAITANTLRQQLTNTTEVRRLEKNV KEVLDFADGEKKIKLLTGKRVQLAEDLKVKVREIQEKDAFIE ALHQEK
6090	194	1560	PVFVPAPGAVLEQAS/ASPPLATQTVVPLQHQCKIPELVQASIL FELQLFFCQLIALFVHYINYKTUWWYPPSHPPSHTSLNHLID FNLLMVTITVLGRFVIGSVKASQSGKVSFLFRSILLFLTRFTV LTATGWSLCRSLIHLFTYSFLNLL/FPLLSVWDVHVSVPAAELR P\RKTSLSFNHMASMGPREAVSGLAKSRDYLLTLR\RRGSSTQDS CMARTPCP/PHACCLSPSLIRSEVFLKMDFNWRMKEVLVSSML SAYYVAFPVWFVKITHYDKRWSCELFLLVSISTSVILMQHLL PASVCDLLHKAHAHLGCWQKVDPALCSNVLOHPWTEECMWPOGV LVKHSKNVYKAVGHYNVAIPSDVSHFRFHFSSKPLRILNILL LEGAVIVYQLYSLMSSEKWHQITISLALILFSNYAFAFKLLDRDL VLGKAYSYSASQDRDLDRFS
6091	3279	412	SSRTREMEKEILRRQIRLLQGLIDDYKTLHGNAFPGTAAAG WQPPTYHSGRAFSARYPRPSRRGYSSHHGSPWRKKYSLVNRPG PSDFPADHAVRPLHGARGGQPPVPOQHVLEROVLSQGNVVIK VKPPSKSGSASASGAQSGSLEEFEDTPWSDQRPREGEGEPPRGQ LQPSRPTRARGTCSVEDPLLVCQKEPGKPRMVKS VGSVGS PRE PRRTVSESIVAVKASFSSALPPRTGVALGRKLGSHSVASCAQ LLGDRRVDAGHTDQVPVPSGSGGPARPASGPROAREASLVVTCR TNKFRKNKYKWAASSKSPRVARRALS PRVAENVCKASAGMAN KVEKPLIADPEPKPRKPATSSKPGSAPS KYKNKASSPSASSSS SFRWQSEAGSKDHASQLSPVLSRSPSGD\RPVGHSGLKPLSGE TPLSAYKVKSRTKIIRRRGSTSLPGDKKSGTSPAATAKSHLSLR RRQALRGKSSPVLKKTENKGLVQVTHRLCRLPPSRAHLPTKEA SSLHAVRTAPTSKVIKTRYRIVKKTASPLSAPPFPLSLPSWRA RRLSLRSRLVNLRLFPVAGGGKAQPGSPWRSKGYRCIGGVLY KVSANKLSKTSQPSDAGSRPLLRTGRLD PAGSCSRSLASRAVQ RSLAIIRQARQRREKRKEYCMYNNRFGRCNRGERCPYIHDPEKV AVCTRFVGTCKKTDTGTCFSSHVSKEKMPVCSYFLKIGICNSN CPYSHVYVSRKAEVCSDFLKGICPLGAKCKKHTLLCPDPARRG ACPRGAQCQLLHRTQKRHSRRAATS PAPGSPDATARSVASHG PRKPSASQRPTRQT PSSAALTA AVAAPHCPCGGSASPSSSKAS SSSSSSSSPPASLDHEAPSLQEAALAAACSNRLCKLPSFISLQS SPSPGAQPRVRAPRAPLT KDSGKPLHIKPL
6092	143	3190	AKAPPTGESSEPEAKVLHTKRLYRAVVEAVHRLDLILCNKTAQ EVFKPENISLRNKLRELCKLMFLHPVDYGRKAEELLWRKVYYE

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			VIQLIKTNKKHIHSRSTLECAVRTHLVAGIGFYQHLLLYIQSHY QLELQCCIDWTHVTDPLIGCKKPVASGKEMDWAQMACHRCLVY LGDLSRYQNELAGVDTELLAERFYQALSVAPQIGMPFNQIGTL AGSKYYNVEAMYCYLRICQSEVSFEGAYGNLKRKYDKAAKMYHQ LKKCETRLKSPGKKRCKDKRLLVNFMYLQSLLPKSSSVDSSEL TSLCQSVLEDFNLCLFYLPSSPNLSLASEDEEBEYESGYAFLPDL LIFQMVIICLMCVHSLERAGSKQYSAIAFTLALFSLVNHVNI RLQAELEEGENPVPAFQSDGTDPESEKPEVEKEEEDPDEPPVVT PQVGEGRKSRKFSRLSCLRRRRHPPKVGDDSDLEGFESDSSHD SARASEGSDSGSKSLEGGGTAFDAETDSEMNSQESRSDLEDME EEGTRSPTEPPRGRSEAPDSLNGPLGPSEASIASNLQAMSTQ MFQTKRCFRLAPTFSNLLQPTTNPHTSASHRPCVNGVDKPSSE PASEEGSESESESSGRSCRNERSIQEKLQVLMAGLLPAVKVF LDWLRTNPDLIIVCAQSSQSLWNRLSVLLNLLPAAGELQESGLA LCPEVQDLLEGCELDPDLSLLLPEDMALRNLPLRAAHRFRNF DTRPLSTLEESVVRICIRSFHFIA RLQGSILQFNPEVGIF VSLAQSEQESLLQQAQAFRMAQBEARRNRLMRDMAQLRLQLEV SQLEGSQQPKAQSAMSPLYLPDQALCHHLVPVIRQLATSGRFI VIIPTVIDGLDLLKKHHPGARDGIRYLEAEFKKGNRYIRCQKE VGKSFERHKLKRDADAWTLTKILDSCQQLT\LAQGAGEDPSG MTIITGLPLDNPSLLSGPMQAALQAAHASVDIKNVLDIFYKQW KEIG
6093	76	1002	ACGRRAMLALRVART/SRWGAL\RGAVWAPGTRPSKRRACWALL PPVPCCGLCLAERWRLRPAALGLRLPGIGQRNHCSGAGKAAPR\ PAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAP VLGYLIIIEEDFNIALGVFALAGLTDLLDGFIA RNWANQRSALGS ALDPLADKILISILYVSLTYADLIPVPLTYMIISRDMVLEAAVF YVRYRTLPTPRTLAKYFNPCYATARLKPTFISKVNTAVQLILVA ASLAAPVFNYADSIYQLIWCFTAFTTAASAYSYYHYGRKTVQV IKD
6094	23	1010	PFLRCLRGDQKARMSERKVLNKYPPDFDPSKIPKLLPKDRQY VVRLMAPFNMRCCTCGEYIYKGGKFNAKETVQNEVYLGPIFR FYIKCTRCLAEITFKTDPENTDYTMEHGATRNFQAEKLEEBEEK RVQKEREDEELNPNMKVLENRTKDSKLEMEVLENLQELKDLNQR QAHVDFEAMLRQHRLSEBERRRQQQEDEQETAALLEEARKRRL LEDSDSEDEAAPSPLQPALRPNPTAILDEAPKPKRKVEVWEQSV GSLGSRPPLSRLVVVKKAKADPDCSNGQPQA/APHPRSPAEEQEG GQPYTPDAWRVLEPTGCIPGQ
6095	1	1599	TRGRAAERSRGRGHGFLGGGFA\SVVDYFPSED FYRCGYCKNES GSRSGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMMNQTCPPQ YTIRCRPLQFQPSKSHKKVLKKMLKFLAKGEVPKGSCE\DEPMD STMDDAVAGDFALINKLDIQCDLKTLSDDIKESLESEGKNSKKE EPQELLQSQDFVGEKLGSGEP SHS

TRADOCS:1416257.1(%CSH011.DOC)

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			VKVHTVPKPGKADLSKPPCKAKEIRKERRKRLKMQQNPAGEL EGFOAQGHPPSLFPPKAKSNQPKSLLEDLIFESLPENASHKLEVR VVRSSPPSSQFKATLLESYQVYKRYQMVIHKNPDDTPTESQFTR FLCSSLPEAETPPNGPDCGVSFHQQYWLGDGKIIAVGVVIDILPN CVSSVYLYDDPYSLSLGVYSALREIAFTRQLHEKTSQLSYYY MGFYIHSCPKMKYKGQYRPSDLLCPETVWVPIEQCLPSLENSK YCRFNQDPEAVDEDRSTEPDRQLQVFKRAIMPYGVYKKQKQDPS EBAAVLQYASLVGQKCSERMILLFRN
6096	2277	575	QVRRAALLSSAMEDSEALGFHEHMLDPRLLQAVTDLGSWRPTLI QKAIPLALEGKDLLARARTGSGKTAAYAIPLQLLLHRKATGP VVEQAVRGLVLVPTKELARQAQSMIQQALATYCARDVRVANVSAA EDSVSQRAVLMKPDVVGTPSRILSHLQDQSLKLRDSLELLVV DEADLLFSFGFEEELKSLCHLPRIYQAFMSATFNEDVQALKE LILHNPVTLKLQESQLPGPDQLQQFQVVCETEEDKFLLLYALLK LSLIRGKSLFVNTLERSYRLRLFLEQFSIPTCVLNGELPLRSR CHIIISQFNQGFYDCVIATDAEVLGAPVKGKRRGRGPKGDKASD EAGVARGIDFHHVSAVLNFDLPPTPEAYIHRAGRTARANNPGIV LTFVLPTQFHLGKIEBLLSGENRGPIILLPVQFRMEEIEGFYR CRDAMRSVTKQAIAREARKKEIKEBLLHSEKLYTFEDNPR\DLQ LLRHDLPLHPAVVKPHLGHVPPDYLVPPALRGLVRPHKK\GRSCL PLVGRPREQSPRTHCAASSTKERNSDPQSPPEVVGPLWS
6097	1673	192	APGTMSSGGKKSSFOITSVTTDVEGPGSGASDPPTFPQPTGPP PRLNPEPSDDPGKGTTPRNGSFPFGAPSSRFVVKLPHGLGEP YRRGRWTCVDVYERDLEPHSFGGLLEGIRGASGGAGGRSLDSRL ELASLGLGAPTTPSGLSQSGPTSWLRPPPTSPGPQARSFTGGLGQ LVVPSKAKAEKPPLSASSPQQRFPPEPETGESAGTSRAATPLPSL RVEAEAGGSGARTPPLSRRKAVDMRLRMELGAPPEMGQVPLDS RPSSPALYFTHDASLVHKSPPDPFGAVAAQKFLSAHSMALISGHL DSDDSGSGSLVGIDNKIEQAMDVLKSHLMFAVREEVEVLKEQI RELAERNAALEQENGLLRALA\SPEQLGSAGPFRGVPR\LGPPA PNGPFVLSLPSLTIVPLGLPLGLASAAPWPLPMPALIVPVFPGVG VQALSNPGWSPGLPHLLIIIPSLDGGGEGFRTGRQQAGPGEET QPPPSLPGTQQ
6098	168	1074	NYCLRHRSPLEKDSSPGSSSTSLIKKQRETSPTFIMRALKELD EGKIFKNWGTQTEKEDTSNINPROTETS VNASRSPEKCAQQRQK RLNSASQRSSSLPPSNRKSSTPTKREIMLTPVTVAYS PKRSPKE NLSPGFSHLLSKNESSPIRFDILLDDLDTPVPSTLQRTNPRKQL \QFLPLDDSEEK\TYSEKAT\DNIVNHSSCEPVPNGVKKVSVR TANEKNKSVSVEQCKPVSVTPQGNDFEYTAKIRTLAETERFF\D ELTKEKDQIEAALS RMSPSGGRITLQTRLNQEAFGRSFGKD
6099	168	1074	NYCLRHRSPLEKDSSPGSSSTSLIKKQRETSPTFIMRALKELD EGKIFKNWGTQTEKEDTSNINPROTETS VNASRSPEKCAQQRQK RLNSASQRSSSLPPSNRKSSTPTKREIMLTPVTVAYS PKRSPKE NLSPGFSHLLSKNESSPIRFDILLDDLDTPVPSTLQRTNPRKQL \QFLPLDDSEEK\TYSEKAT\DNIVNHSSCEPVPNGVKKVSVR TANEKNKSVSVEQCKPVSVTPQGNDFEYTAKIRTLAETERFF\D ELTKEKDQIEAALS RMSPSGGRITLQTRLNQEAFGRSFGKD
6100	2	713	FVEVSGYRSRADPEPRGRDITMYAYLFKYIIGDTGVGKSCILL QFTDKRFQPVHDLTIGVEFGARMVNI DGKQIKLQIWDTAGQBSF RSITRSYYRGAAGALLVYDITRNETFNHLTSWLEDARQHSSNM VIMLIGNKSDLESRRDVKREGEAFARE\HGLIFMETS AKTACN VEEAFINTAKEIYRKIQQLFDVHNEANGIKIGPQQSISTSVGP SASQRNSRDIGSNSGCC
6101	1	1399	FRGRANPLREVSHNLGCRVCSWSASWGRLPAL SARLSPLLAFR GKMVFPLSCAVQQYAWGKMGSNSEVARLLASDPLAQIAEDKPY AELWMGTHPRGDAKILDNRISQRTLSQWIAENQDSLGSVKVDTF

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			NGNLPFLFKVLSVETPLSTQAHPNKELAEKHLQAPQHYPDANH KPEMAIALTPFQGLCGFRPVEEIVTFLKKVPEFQFLIGDEAATH LKQTMSHDSQAVASSLQSCFSLMKSEKKVVVEQLNLLVKRISQ QAAAGNNMEDIFGELLQLHQYQPGDIGCFAYFLNLLTLKPGE AMFLEANVPHAYLKGDCVCEMACSDNTVRAGLTPKFIDVPTLCE MLSYPSSSKDRFLFLPTRSQEDPYLSIYDPPVPDFTIMKA\BVP G\SVTEYKDLALDSASILMVQGTVIASPTPTTQPIPLQGGVLF FGANESVSLKLTPEPKDLLIFRACCLL
6102	70	2415	QTPQATLAANGAEDSRGGEMLPAGEIGASPAAPCCSESGDERKN LEEKSDINVTVLIGSKQVSEGTNGDLPSYVSFAIEKEVGNLKL SLKKLDKLIBQRTVSKMQLEEQLTISSEIPKRIRSAKNAEES KQFLNQFLEQETHLFSAINSHLLTAQPMWDDLGTMSIQIEEIER HLAYLKWISQIEELSDNIQQYLMTNNVPEAASLTLSMAELDIKL QESSCTHLLGFMRAIVKFWHKILKDKLTSDFEILAQHLWPFIA PPQSQTVGLSRPASAPRIYSYLETFLCQLLQLQTSHELLTEPK\ HSQKNTLFLPPLLSS/WPIQVMLTFLQKRFRVHFRGNRQTNVLS KPEWYLAQVLMWIGNHTEFLDEKIQPILDKVGSLSVNARLEFSRG LMMLVLEKLATDIPCLLYDDNLFCHLVDEVLLFERELHSHVGYF GTFASCMHILSEETCFQRWLTVERKFPALQKMDMSLSSEAAVWSQ YKIDITVDDEMKVDPDAETFMTELLLVITDRYKNLPTASRKQFLE LQKDLVDDFRIRLTQVMKEETRASLGFRYCAILLNAVNYISTVLA DWADNVFFLQLOQAALVFAENNTLSKLQGLQSLAMESSVFDDM INLLERLKHDMLTRQVDHVFEVKDAKLYKKERWLSLPQSQEQ AVMSLSSSACPLLLTLRDHLLQLEQLCFSLEKIFWQMLVEKLD VYIYQEIILANHFNEGGAAQLQFDMTRNLFPFLSHYCKRPNYF KHKEACIVLNLNVGSALTAGKDVLPVQLQGSFPAT
6103	207	2523	ESNMTMTTYLEFTQNEERDGVRFSSWNVFSSRLEATRMVVPVA ALFTPLKERPDLPPIQYEPVLCSRTTCRAVLNPLCQVDYRAKLW ACNFCYQRNQFPSPSYAGISELNQPAELLPOFSSIEYVVLRGPM PLIFLYVVDTCMEDEDLQALKESMQMSLSLLPPTALVGLITFGR MVQVHELGCESKSYVFRGTDLKSAKQLQRLGLSKVPVTOAT RGPOVQPPPSNRFLQPVQKIDMNLTDLLGELQRPWPVPQGR PLRSSGVALSIAVGLLECTFPNTGARIMMFIGGPATQGGPMVVG DELKTFIRSWHDIDKDNAYVKKGTKHFEALANRAATGHVIDI YACALDQGLLEMKCCPNLTGGYVMVGDSTNTSLFKQTFQRFV KDMHGQPFKMGFGGTLEIKTPR\BIKISGAIGPCVSLNSKGFV ENEIGTGGTCQWKICGLSPTTLAIYFEVVOHNAIPQGG\RG A\IQFVTQY\QHSQGRRIRVITIARN\WADAQTQIQNIAASF QEAAILMARLAIYRAETEEGPDVLRWLDRLIRLCQKFGEYHK DDPSSFRFSETFSLYPQFMFLRRSSFLQVFNNSPDESSYYRHH FMRQDLTQSLIMIPIYAYSFSGPPEPVLLDSSSILADRILLM DTFFQILYHGETIAQWRKSGYQDMPEYENFRHLLQAPVDDAQE ILHSRFPMPRYIDTEHGGSQARFLLSKVNPSQTHNNMYAWGQES GAPILTDVSLQVFMHLLKLAIVSSAA
6104	124	732	KVSEYIILSKDKILFHALAMLVLVSPWNSAARGVLRNYWERLLR KLPQSRPGFPPPPWGPALAVQ\AQPCLOSQQMIPVEVKRI/RSL LDSIFWMAAPKNRRTIEVNRERRRNPQKLIKVNNDIVCECGH LKQKHVLCAICYEKVKCTAEIRRIQIGKEGGPFKAPTITETVVL YTGETPSEQDQGR I IERDRKRPSWFTQN
6105	3	989	PLHGACTSLVLQRFCHRRPRPCAPARPEDMRRPAAVPLLLLLCF GSQRAKAATACGRPRMLNRMVGGQDTQEGEWPPQVSIQRNGSHF CGGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAM YARVRQVESNPYQGTASSADVALVELEAPVPFTNYILPVCLPD PSVIFETGMNCWVTGWGSPSEEDLPEPRILQKLAVPIIDT\PR CNLLYSKDTFEGYQPKTIKNDMLCAGFEEGKKDACKGDSAGPLV CLVGQSWLQAGVISWEGGARQNRPGVYIRVTAHNNWIHRIIPK

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6106	3	1302	LQVQPSEVGRPEVTTPGPGAP GRPPTAPHTGRPPTANRGDPRDLKRGCARLLTSIESRGRPAAS AGLRDRCALRRWPLRRAPLARATRRRAGSPRRCAPRPRACPGQ WSRARHCQGGCLLLLLLLCQFMEDRSQAQGNCWLRQAKNGRCQV LYKTELSKEECCSTGRLLSTSWTEEDVNDNTLPKMWIFNGGAENC IPCKETCENVDCGPGKKCRMNKKNKPRCVCAPDCSNITWKGPPVC GLDGKTYRNECALLKARCKEQPELEVQYQGRCKKTCRDVFCPGS STCV\VDQTNNAVCVTCNRICPEPASSEQYLCGNDGVTYS\SAC HLRKATCLLGRSIGLAYEGKCIKAKSCEDIQCTGGKKCLWDFKV GRGRCSLDELCPDSKSDPEVCASNATYASECAMKEAACSSGV LLEVKHSGSCNSISEDTEEEDEEDQDYSFPISILEW
6107	623	168	SRCSSPRPEPGRGRGK/LSPSEHRKWVEVFKACDEDHKGYSRE DFKTAVVMLFGYKPSKIEVDVSMSSINPNTSGILLEGFLNIVRK KKEAQRVYRNEVRHIFTAFDTYYRGFLTLEDFFKAFRQVAPKLPE RTVLEVFREV\DRDS\DHVVSF
6108	3	1348	GGSLRFSPFRVPSCSRVCVPVPPGGCGLSPMSASRPQSPTTPW CLPRRYMKHKRDDGPEKQDEAVDTPVMTCVFVVMCCSMLVLL YYFYDLLVYVIGIFCLASATGLYSCLAPCVRRLP\SASAGESA LLAPTIPNNSLPYFHKRPQARMLLALLFCVAVSVVWGVRNEDQ WAWVLQDALGIAFCLYMLKTI RLP TF KACTLLLLVLFYDIFPV FITPFLT KSGSSIMVEVATGPSDSATREKLPMLVKVPRLNSSPL ALCDRPFSLGFGDILVPGLLVAYCHRFDIQVQSSRVYFVACTI AYGVGLLVTFVALALMQRGQPALLYLVPCTLVTS CAVALWRREL GVFWTSGGFAKVLPPSWAPADGFPQPKDSATPLSPFPQPSSE PATSPWPAEQSPKSRSTSEEMGAGAPMREPGSPAESSEGRDQAQPS PVTQPGASA
6109	1	1381	CRSRAGAASGGAILLEGTKLRRQRVDTNKPLDPLVPSALRAAMLY LEDYLEMIEQLPMDLRDRFTEMREMDLQVQNDQLEQRVSEFF MNAKKNKPEWREEQMASIKKDYKALEDADEKVQLANQIYDLVD RHLRKLQELAKFKMELEADNAGITEILERRSLELDTSPSQPVNN HHASHTPVEKRYNPTSHHTTTDHIPEKKFKSEALLSTLTSDA SKENTLGCRRNNSTASSNNAYNVNSSQPLGSYNIGSLSSGTGAG GI\TMAAAQAVQATAQMKEGRRTSSLKASYEAFKNNDPQLGKEF SMARETVGYSSSSALMTTLTQNASSSAADSRSGRKSKNNKSSS QQSSSSSSSSSLSSGSSSTVVQEISQQTTVVPESDSNSQVDWT YDPNEPRYICNQVSYGEMVGC DTQDCPIEFHYGCVGLTEAPK GKWCPCQCT\AAMKRRGSRHK
6110	77	2464	ACPSAATMSDQDHSMDMTAVVKIEKGVGGNNGNGNGGGAFSQ ARSSSTGSSSSSTGGGGOESQPSPLALJAATCSRIESPNENSNNNS QGPSQSGGTGELDLTATQLSQGANGWQIISSSSGATPTSKEQSG SSTNGSNGSESSKNRTVSGQYVVAAPNLQNNQVLTGLPGVMP NIQYQVIPQFQTVDGQQLQFAATGAQVQDGSQIQIIPGANQQ IITNRSGSGNIIAAMPNLLQQA VPLQGLANNVLSSGQTQYVTNP VALNGNITLLPVNSVSAATLTPSSQAVTISSSGSQESGSPVTS GTTISSASLVSSQASSSSFTNANSYSTTTTTSNMGIMNFTTSG SSGINSQGTQPRVSGLGSDALNIQQNQTSGGSLQAGQQKEGE Q\NQCTQAAPKSISRFPQLVGGG\QALQ\AFQAAPLSGQTFTQ ISQETLQNLQQLQAVPNSGPIIIRTPTVGPNGQVSWQTLQLQNLQ VQNPQAQTITLAPMQGVSLGQTSSTNTLTPIASAASIPAGTVT VNAQQLSSMPGLQTLNLSALGTSGIQVHP IQGLPLAIAANAPGDH GAQLGLHCAGGDGIHDDTAGGEEGENSPDAQPQAGRRTREACT CPYCKDSEGRSGDPGKKKQHI CHIQCGCKVYGKTSHLRAHLRW HTGERPFMCTWSYCGKRFTSRDELQRHKRTHTGEEKFACPECPK RFMRSDHLSKHIKTHQNKKGPGVALSVGTLPLDSGAGSESGT ATPSALITTNMVAMEAICPEGIARLANSIGINVKEGGQFCSPINT SANGF

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6111	1637	797	RVDPRVRGAMAPWGKRLAGVRGVLLDISGVLYDSGAGGCTATAG SVEAVARLKRSRLKVRFPCTNESQKSRAELVGQLQRLGFDISEQE VTAPAPAAQCILKERGLRPYLLIHDGV\ASEFDQIDTS/STPNC VVIADAGESFSYQNMNNAFQVLMELEKPVLSISLGKGRYYKETSG LMLDVGPYMKALEYACGIIKAEVGGKPSPEFFKSALQAIGVEAHQ AVMIGDDIVGDVGGACQRCGRMALQVRTGKFRPSEHHPEVKADG YVDNLAEAVDLLLQHADK
6112	77	196	MSSHSFKSKRFLAKKQKPNRPILQWILKTNKIRHNWK
6113	1779	567	WEGRSWAACGVNLQGAWERSGVRASESPGKRADVSWWSROL ETMVDHLANTEINSQRIAAVESCFGASGQPLALPGRVLLGEGVL TKECRKKAKPRIFFLNDILVYGSIVLNKRKYRSQHIIPLEBVT LELLPETLQAKNRMIKTAKKSFVVSASATERQEWISHIEECV RRQLRATGRPA\STHAAPWIPDKATDICMRCTQTRFSALTRRH HCRKCRVVVCAECRQRFLRLSPKPVVVCSLCYRELAQAQRK EEABEQGAGVPRAASHLARPICGRPVEMTMTPTRTTRAAGTATG PAWSSTPRGWGLPSTADPRPAEHLSPQLHCPGPGQEGSSRSR PGLRDPPIPWQVQRWGVALSGLPVVFCWTLCPYGFTAGNAFFPR KPQNTHRSW
6114	818	246	PTSRPRPSFGSPAMSWACVSAAPSSSWPASSSWPCGPRRCCTR RRRCSPRCGLAAGSMCSCSPSWRCTPVVACWSPPPP\PAEQVQC GHLPPHADRRALRLVPAAPARGPGPGHPAGPAGPRPARTPPASP HGQRPTVPAPPCLLAATEPTPSRPHQRWTRDRMLGRGSQVT GRPQWFLRGLVLFSL
6115	324	71	DVCGRVCAHPHLYTHIMHICAHAC\IHTHAQLC/I TASHALAH SHLYTCMVMLTASHTPSHTHPHTAVHKEHRADVLRGTLTPLR
6116	595	1430	TGVMPGRWHAA/ISSSGPVFEGARA/LQTVKKEBEDESYPVQ AAREQTLNRPQGLFQRLFRQLRYHESGPLETSLRRLRELCRWW LRPDLVLSKAQILELLVLEQFLSILPGEELRVVWQLHNPESGEE\I WPCWRSCRGTLMGHPGGTRALP\EPICALDGYRS\LRSAQIWSL ASPLRSSSALGDHLEPPYEIETARDFLAGQSDTPAAQMPALFPRE GCPGDQVTPTRSLTAQLQETMTFKDVEVTFSDQEWGLDSAQRN LYRDVMLENYRNMAISLGK
6117	1433	222	VGVSPAPFPCSWEVGPGGGWTFGILKEGQGGRRTPLLLLATRTR GLLSLFPFAAMHPAAPPPLPVVVAAVLWGAAPTRGLIRATSDHNA SMDFADLPALFGATLSQGLQGLVEAHPDNACSPAPPPAPV NGSVFIALLRRFDCNFDLKVNLNAQKAGYGAAVVHNVNSNELLNM VWNSEBIQQIWIPIPSVFIGERSSEYLRLALFVYKCARVLLVPDN TFFLGYYLIPTGTIVGLLVLANGAVMIARCIQHRKRLQRNRLTK \EQLKQI\PTHDYQKGDQYDVCAICLDEYEDGDKLRVLPCHAY HSRCVDPWLTQTRKTCPICKQPVHRGPGDEDEQEETQGGQEGDE GEPRDHPASERTPLLGSSTPLTPSFGSLAPAPLVFPGPSTDPPL SPPSSPVILV
6118	1044	247	STISCRACSTGATPGAQSHRSARGHAAGGKETAALGMERGKVKK KEKETQKEKIGEGREEKVKRKEVEQKI KQEKQEKQERRKKG EKEEKRTQKQKTNKEKEQFKGQEEKGENKDSLTTRTTPLEPLEK NKQILVLGLDGAGKTSVLHSLASNRVQHSVAPTQGFHAVCINTE DSQMEFLEIGGSKPFRSYWEMYLSN/ADSLARSFSVGFQDSQP ITWKAKKYLHQLIAANPVLPVVFANKQDLEAAYHITDIHEALA II
6119	1217	462	DPRFVTENTTKAPAQERTTQPRSSREGTLRSTMEYLSALNPSDL LRSVSNISSEFGRRVWTSAPPPQRPFRVCDHKRTIRKGLTAATR QELLAKALETLLNGVLTVLVEEDGTAVDSEDFQLLEDDTCLM VLQSGQSWSPTRSGVLSYGLGRERPKHSDIARFTFDVYKQNPRL DFGSLNVKATFYGLYSMSCDFQGL\GPKKVLRELLRWTSTLLQ GLGHMLLGISSTLRHAVEGAEQWQKGRHLSY

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6120	785	179	LERAGGGGLSSRALVGSAGCLSLVARANGKGLPRGRKEFVEAVR VRYVAFRYRTPRAVCLRLWSCRREVIMSGRGKQGGKVRKAKSR SSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAAYLEYLTAE ILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLKGKVTIAQG G\VLNPIQAVLLPKKTESQKDEGANDP
6121	1612	107	FVRAQARGSRQPVRRPPLLGAGSRLRCRSCGRMEPLKVEKFATAN RGNGLRAVTPLRPGELLFRSDPLAYTVCKGSRGVVCDRCLLKGKE KLMRCSQCRVAKYCSAKCQKAWPDHKRECKCLKSCKPRYPDPS VRLGRVVFVKLMDGAPSESEKLYSYFDLESNINKLTEDKKEGLR QLVMTFQHFMRBBIQDASQLPPAFDLFEAFKVICNSFTICNAE MQEVGVGLYPSISLLNHSQDPCNSIVFNGPHLLRAVRDIEVGE ELTICYLDMLMTSEERRKQLRDQYCFECD\CFRCQTQDKDADML TGDEQVWKEVQESLKKIEELKAHWKWEQVLAMCOAIISNSERL PDINIYQLKVLDCAMDACINLGLLEALFYGTTRTMEPPYRIFFPF SHPVGRGVQVMKVGKQLQHQGMFPQAMKNLRLAFDIMRVTHGREH SLIEDLILLE/AMRRQHQSILRRERSQREIRRVSLNALLRSHT LCFVSCVNLISYWKFCSEFV
6122	2	2324	RFRKMDGGAASQDESSAAAAAADSRMNNPSETSKPMSMESGDG NTGTQTNGLDFQKQPVVGGAIATAQAQAFGLHLHQVQLAGTSL QAAQSLNVQSKSNEESGDSQPPSQPSQPSVQAAIPOTQLMLA GGQITGLTTPAQQLLLQQAQAQALLAAVQQHSASQHSAA GATISASAATPMTQIPLSQPIQIAQDLQQLQQLQQNLNLQPFV LVHPTTNLQPA\QFIISQTPQGGQGLLQA\QNLLTQLPRQSQA LLQSQPRI\TLTSQPATPTCTIAATPIQTLPSQSTPKRIDTPS LEEP\SDLEELEQFAKTFKQRRIKLGF\QGDAGLAMVKLYGND FSPTTIFRFEALNLSFKNMCKLKLPLEKWLNDENLSSDSSLS PSALNSPGIEGLSRRRKRTSIEA\NIRVALEKSFLN\QKPTS EETIMADQLNMEKGVIRVWFCNRRQKEKRINPPSSGG\TSSSP IKAIFPSPSTSLVATTPSLVTSSAATTLTVSPVLPLTSAAVTNLS VTGSDTTSNNATVISTAPPASSAVTSPSLSPSPSASASTSEA SSASETSTTQTTSTPLSSPLGTSQVMVTASGLQTA/AQLLPFKG AAQLPANASLAAMAAAAGLNPSLMAFSQFAAGGALLSLNPGTSL GALSPALMSNSTLATIQLASGGSLPITSLDATGNLVFANAGGA PNIVTAPLEFLNPQNLSTLTSNPVSLVSAASAGNSAPVASLHA TSTAESIQNSLFTVASASGAASTTTASKAQ
6123	3	2944	HLLHRWFGTDMQMINFTTGEFQLTEACPYLGTTHSEESRFGILHL HLQPLEMKRVRGVVFTPADYGVKVTSLILIRNNLTVIDMIGVEGFG ARELLKVGGRPLPGAGGSLRFKVPSTLMDCRRLKDSKQILSIT KNFKVENIGELPITVSSLKINGYNCOGYGEVLDCHQFSLDPNT SRDISIVFTPDFTSSWVIRDLSLVTAADLEFRFTLNVTLPHLL PLCADVVPGPSWEESFWRLTVFFVSLSLGVLIAFQQAQYILM EFMKTRQRQNASSSSQNNGPMQDVISPHSYKSNCKNFLDTYGPS DKGRGKNCLPVNTPQSRIONAAKRSPATYGHKSQKHKCSVYYSK HKTSTAASSTSTTTEKQTSPLGSSLPAAKEDICTDAMRENWI SLRYASGINVNLQKNLTLPKNLNKEENTLKNTIVFSNPSSECS MKEGIQTCMFPKETDIKTSSENTAEFKERELCPLKTSKKLPENHL PRNSPQYHQPDLPETISRKNNGNNQVVPVQNEVDHCENLKKVDTK PSSEKKIHKTSREDMFSEKQDIPFVEQEDPYRKKKLQEKREGNL QNLNWSKSRTCRKNKRGVAPVSRPPEQSDLLKLVCSDFERSELS SDINVRSWCIQESTREVCKADAELASSLPAAQREAEYQKPEK KCVDFKCSDDSSDCGSSSGSVRASRGWSWSSTSSSDGDKKPM VDAQHFLPAGDSVSQNDFFPSEAPISLNLSHNICNPMTGNSLPQY AEPSCPSLPAGPTGVEEDKGLYSPGDLWPTPPVCVTSNLCTLE NGVPCVQIESAPVHNSFIDWSATCEGQFSSAYCPLLENDYNAPP EENMNYANGFPADVQTDIDHNSQSTWNTPP\NMPAS\WONA QFPSSSRPYLKSTPKACLPMSSGLFGPI\WAP\QSDVYENCCPIN

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			PTTEHSD/THMENQA\VVCKEYYPGF\NPFPRAYMNLDIWTTT\ANRANFPLSRDSSSYCGNV
6124	1573	236	SDEALRLAGERGMGRVQLFEISLSHGRVVVSPGEPLAGTVRVRLGAPLPFRAIRVTCIGSCGVSNNKANDTAWVVEEGYFNSSLADKGSLLPAGEHSFFQFLLPATAPTSFEGPFGKIVHQVRAAHTPRFSKDHKCSLVFYILSPLNLNSIPDIEQPNVASATKKFSYKLVKTGSVVLTASTDLRGVVVGQALQLHADVENQSGKDTSPVVASLLQKVSYKAKRWIHDVRTIAEVEGAGVKAWRRAQWHEQILVPALPQSALPGCSLIHIDYLLQVSLKAPEATVTLVPVIGNIAV/NPCPSEPPARPGAASWGPPTGG\PSAPPQEEAEAAAGGPHFLDPVFLSTKSHSQRQPLLATLSSVPGAPEPCPDGSPASHPLHPLCISTGATVPYFAEGSGGPVPTTSTLILPPEYSSWGYPEAPPSEYEQSGGVEPSLTPESE
6125	1	904	KTCPKLTCAFTVSVDPDSCCRVCRGDGELSNEHSDGDI FRQPANREARHSYHRSHYDPPPSRQAGGLSRFFGARSHRGALMDSQASGTIVQIVINNKHKGQVCVSNKGKTYSHGESWHPNLRAGFIVECVLCTCNVTQKECKKIHCNRYPCYKYPQKIDGKCCXVCPG/KKAKEELPGQSFNDKGYFCGEETMPVYESVFMEDGETTRKIALETERPPQVEVHVWTIRKGILOHFIKISKRMFEELPHFKLVTRTTLSQWKIFTEGEAQISQMCSSRVCRTELEDLVKLVLYLERSEKGC
6126	1224	389	RLLSEAFCCPRSRRRFQMNPEWQAFVHVAVAGGLCAVAVFTGIFDSVSVQVGYEHYAEAPVAGLPAPFLAMPFNSLVNMYATLLGLSWLHRGGAMGLGPRLKDVFAAMALLYGGVQWLRLWTQWRRAAVLDO WLTLPIFAWPVAVCLYLDGRWRP\WLFSLSECVSLASYGLALLHPQGFEVALGAHVVEAVGQALRT\HRHYG/SATPSATYALGVLSCLGFFVVLKLDHQLARWRLFQCLTGHEWSKVCVLOQFHFAFLFLTHFNTHPRFHPSGGKTR
6127	1335	463	VLPRCLVFPVNTMDSSREPTLGRDLAAGFQVQWRFDADKGYIEEKELDAFFLHMLMKLGTDDTVMKANLHKVKQFMTTQDASKDGRIRMKELACMFLESDENFLLLFRRNPLDSSVEFMQIWRKYDADSSGFISAELRNFLRDLFLHKKATSEAKLEEYTGTMKIFDRNKDGRDLNDLARILALQENFLQPKMDACSTEKRRKGFEEKIFAYYDVSKTGALGP\EVDGFFVKMMELVQPSISGVLDLDFREILLRHCDVNDGKIQKSELALCLGLKINP
6128	2511	843	TCRMSRRQLERWVWSSQQVQARGRNVRAPRLGKIAMGLEMSKDSFGSLDGRAWEDAQKQPSAWCGGRKTRVYATSSRRAPPSEGTRRGGAARPEKTABEGPPAAGSLRHSGPLGPHACPTALPEPQVTSAMSSQVVGIEPLYIKAPASPDSPKGSSETETEPVVALAPG\PAPTRCLPGHKEEEDGEGAGPGEQGGKLVLSLPLKRLCLVCGDVASGYHYGVASCEACKAFFKRTIQGSIEYSCPASNECEITKRRRKACQACRFTKCLRVGMLKEGVRLDRVRGGRQYKRRPEVDPLPFPGPFPAGFLAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDPAGPDGHLPAVATLCDLFDREIVVTISWAKSIGFSSLSLSDQMSVLQSVWMEVLVLGVAQRSLLTQDELAFAEYLVLEDEGARFAGLGEIG\AALLQLVRLQLRLEREEYVLLKALALANSDSVHIEDEPRLWSCEKLLHEALLEYEAGRAGPGGGAERRRAGRLLLTLP LLRQTAGKVLAFHYGVKLEGVPMHKL FLEMLEAMMD
6129	1764	771	ARFARSAHEGKMEKKKTGARKKAENRREREKQLRASRSTIDLAKHPCNASMECDKQRRQKNRAFCYFCNSVQKLPICAQCGKTKCMMKSSDCVIKHAGVYSTGLAMVGAICDFCEAWVCHGRKCLSTHACAPLTDAC\VECERGVNDHGGRI FSCSFCHNFLCEDDQFEHQASQVLEAETFKCVSCNRLGQHSCLCKACFCDDHTRS KVFQKEGKQPPCPKCGHETQETKDLMSSTRSLKFGRTGTGEGDGASGYDAYWKNLSSDKYGDTSYHDEEEDYEAEDEDEEEDGRKDSDTESDLFTNLNLGRTYASGYAHYEEQEN
6130	3	577	GRGGMREYKVVVLGSG\GVGKSALT\QVVTCTFIEKYDPTIE

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			DFYRKEIEV\DSSPSVAGISWTQQGTEQF\ASMRDLYIKKGQGC ILVYSLVNQQSFQ\DIKPMRDQIIIRVKVSEKVPVI\LVGN\SVD LESEREVSSEGRALAEWGCFFMETSAKSKTMVDELFAEIVRQ MNYAAQPDKDDPCCSACNIQ
6131	3	1811	SSPREKTSDDSHRPSRHGFLFLRLVGLSFFSYLCVPPSRPVPFGS PRSLSAMRLLPLAPGRLRRGSPRHLPSCSPALLLLVGGCLGVF GVAAGTRRPNVVLLTDDQDEVLGGMTPKKTKALIGEMGMTFS SAYVPSALCCPSRASILTGYKYPNNHVVNNTLEGNCSSKSWQKI QEPNTFPAILRSMCGYQTF\AGKYLNEYGAPDAGGLEHVPLGW SYWYALEKNSKYNYTSLINGKARKHGENYSVDYLTDLANVSL DFLDYKSNFEPFFMTATP\APHSPWTAAPQYQKAFQNVFAPRN KNFNIHGTNKHWRQAKTPMTNSSIQFLDNAFRKRWQTLSSVD DLVEKLVKRLFTGELNNTYIFYTSNGYHTQQFSLPIDKRQLY BFDIKVPLLVRGPGIKPNQTSKMLVANIDLGPITLIDAGYDLNK TQMDGMSLLPILRGASNLWRSVDLVEYQGEGRNVDTPTCSLS PGVSQCFFPDCVEDAYNNTYACVRTMSALWNLQYCEFDQDEVFV EYVNLTDADPDQITNIAKTIIDPELLGKMNYRLMLLQSCSGPTCRT PGVDFDGYRFDPRLMFSNRGSVTRRFRFSKHL
6132	96	1241	AAGLLPPLGVPEDPRTRNLLPFGIQGPPFALSRLPFCVSESGW AWEAMEPEFLYDLQLPKGVEPPAEELSCKGKKKYLPTSRKD PKFEELQKPA\VLMEWINATLLPEHIVVRSLEEDMFDGLILHHL FQRLAALKLEAEDIALTATSQKHKLTVLEAVNRS\CSWRSRGP SGA\WESI FNKDLLSTLHLLVALAKRFPDLSLPTNVQVEVITI ESTKSGLKSEKLVQLTEYSTDKDEPPKDVDELFLAPEKVNA VKBAIVNFVNQKLDRLGLSVQNLDTQFADGVILLLLIGQLEGFF LHLKEFYLPNSPAEMLHNVTALALEL/IGRGPAQLPC/LALK/ TIVNKDAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN
6133	2	4256	FVHGSMAADTDLFMECEEELEPWQKISDVIEDSVVEDYNSVDKT TTVSVSQPVSAFVPIAAHASVAGHLSTSTTVSSSGAQNDSSTK KTLVTLIANNAGNPLVQQGGQFLILTQNPAPGLGTMVTPQVLR PVQVMQNAHVTSSPVASQPIFITTQGFPPVRNRPVQNAAMNQC IVLNVQQGQTVRPITLVPAPGTQFVKPTVGVPQVFSQMTIPVRG STMPVRPTNTFTTVPATLTIRSTVPSQSQQTSTPTSTPTP TATQPTSLGQLAQSPGQSNQTTNPKLAPSFPPPAVSIASFVT VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGPVVVSNSSAH\ GSQRTSGPSSMKVTSSI PVFDLQDGGRIKCPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSEPSVPAAKPPSPEKTAPVAS /THPSSTP IPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFY GRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNHMKHVE LDQQNGEVDGHTICQHCYRQFSTPQQLQCHLVNHSPIESTTKC KICEWAFESEPLFLQHMKDTHKPGEMPYVCQVCYRSSLYSEVD VHFIRMIHEDTRHLLCPYCLKVFKNAGFQQHYMRHQKR\NVYH\ CNKCRVQFLFAKDKEHKLQHKHTFRKPKQLEGLKPGTKVTIRA SRQQPRTVPVSSNDTPESALQEAAPLTSSMDPLVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDPNHFPTTVHCSLCRYST CCSRAYANHMNNHVPKRSFKYLLAFKNSVSGIKLACTSCTFVT SVGDAMAKHLVFNPSHRSSSILPRGLTWIAHSRHGQTRDRVHDR NVQNMYPSPFPNTKAATVKSAGATPAEPEZLLTPLAPALPSPA STATPPPTPTHPQALALPLATEGAECNLVDDQDEGSFVTOEPE LASGGGSGGVGKKEQLSVKLRVVLFCNTEQAAEHFRNPQ RRIIRWLRRFQASQGENLEGKYLSEAEKLAEWLTVQREQLP VNEETLFQKATKIGRSLEGGFKISYEWAVRFLRHHLTPHARRA VAHTLPKDAENAGLFDIVQRQIHNQDLPLSMIVAIDEISLFL DTEVLSDDRKENALQTVGTGEPWCDVVLAILADGTVLPTLVFY RGQMDQFANMPDSILLEAKESGYSDDEIMELWSTRVWQKHTACQ RSKGMLVMDCHRTLSEEVLAMLSASSTLPVAVPAGCSSKIQPL

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			DVCIKRTVKNFLHKKWKEQAREMADTACDSDVLLQLVLVWLGEV LGVIGDCPELVQRSFLVASVLPDGNINSPTRNADMQEELIAS LEEQLKLSGEHSESSTPRPRSSPEETIEPESLHQLFEGESETES FYGFEEADLDLMEI
6134	2	4256	FVHGSMADTDLFMECEEEEELEPWQKISDVIEDSVVEDYNSVDKT TTVSVSQPVSAFPVIAAHASVAGHLSTSTTVSSGAQNSDSTK KTLVTLIANNNAGNPLVQGGQPLILTQNPAPGLGTMVTQPVLR PVQVMQANANHTSSPVASQPIFITTQGFPPVRNVRPVQANMNQVG IVLNVQGGQTVRPITLVPAPGTQFVKPTVGVQVFSQMTFVRPG STMPVRPTTNTFTTVPATLTIRSTVPQSQQQTKSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTNPKLAPSPSPPAVSIASFVT VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGPVVVSNNSAH\ GSQRTSGPSSMKVTSSIPVFDLQDGGKICPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSESPVSAKPPSPEKTAPVAS /THPSSTPIPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFFYY GRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNHMKHVE LDQQNGEVDGHTICQHCYRQFSTPFQLQCHLENVHSPYESTTKC KICEWAFESEPLFLQHMKDTHKPGEMPYVCQVCQYRSSLYSEVD VHFRMIHEDTRHLLCPYCLVKFNGNAFQQHYMRHQKR\NVYH\ CNKCRVQFLFAKDIEHKLQHHKTFRKPKQLEGLKPGTKVTIRA SRGQPRTPVSSNDTPPSALQEAAPLTSSMDPLPVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDFPNHFTYVHCSLCRYST CCSRAYANHMNNHVPKSPKYLALFKNSVSGIKLACTSCTFVT SVGDAMAKHLVFNPSHRSSSILPRGLTWIAHSRHGQTRDRVHDR NVKNMYPSPSPFTNKAATVKSAGATPAEPEELLTPALAPLSPA STATPPPTPTHQALALPPLATEGAECNLVDDQDEGSPVTOEPE LASGGGGSGGVGKKEQLSVKLRVVLFCNCNTEQAAEHFRNPQ RRIIRWLRRFQASQGENLEGKYLSEAEKLAEWVLTQREQQPL VNEETLFQKATKIGRSLEGGPKISYEWAVRFLMRHHLTPHARRA VAHTLPKDVAENAGLFIDFVQRQIHNQDLPLSMIVAIDEISLFL DTEVLSSDDRKENALQTVGTGEPWCDVVLAILADGTVLPTLVFY RGQMDQPANMPDSILLEAKESGYSDDEIMELWSTRVWQKHATACQ RSKGMLVMDCHRTHLSEEVLAMLSASSTLPAVVPAGCSSKIQPL DVCIKRTVKNFLHKKWKEQAREMADTACDSDVLLQLVLVWLGEV LGVIGDCPELVQRSFLVASVLPDGNINSPTRNADMQEELIAS LEEQLKLSGEHSESSTPRPRSSPEETIEPESLHQLFEGESETES FYGFEEADLDLMEI
6135	2	4256	FVHGSMADTDLFMECEEEEELEPWQKISDVIEDSVVEDYNSVDKT TTVSVSQPVSAFPVIAAHASVAGHLSTSTTVSSGAQNSDSTK KTLVTLIANNNAGNPLVQGGQPLILTQNPAPGLGTMVTQPVLR PVQVMQANANHTSSPVASQPIFITTQGFPPVRNVRPVQANMNQVG IVLNVQGGQTVRPITLVPAPGTQFVKPTVGVQVFSQMTFVRPG STMPVRPTTNTFTTVPATLTIRSTVPQSQQQTKSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTNPKLAPSPSPPAVSIASFVT VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGPVVVSNNSAH\ GSQRTSGPSSMKVTSSIPVFDLQDGGKICPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSESPVSAKPPSPEKTAPVAS /THPSSTPIPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFFYY GRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNHMKHVE LDQQNGEVDGHTICQHCYRQFSTPFQLQCHLENVHSPYESTTKC KICEWAFESEPLFLQHMKDTHKPGEMPYVCQVCQYRSSLYSEVD VHFRMIHEDTRHLLCPYCLVKFNGNAFQQHYMRHQKR\NVYH\ CNKCRVQFLFAKDIEHKLQHHKTFRKPKQLEGLKPGTKVTIRA SRGQPRTPVSSNDTPPSALQEAAPLTSSMDPLPVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDFPNHFTYVHCSLCRYST CCSRAYANHMNNHVPKSPKYLALFKNSVSGIKLACTSCTFVT

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			<p>SVGDAMAKHLVFNPSHRSSSILPRGLTWIAHSRHGQTRDRVHDR NVKNMYPSPSFTNKAATVKSAGATPAEPEELLTPALAPLSPA STATPPPTPTHPOALALPPLATEGAECINVDQDEGSPVTQPE LASGGGGSGGVGKKEQLSVKKLRVVLFALCCNTEQAAEHFRNPQ RRIRRWLRRFQASQGENLEGKYLSEAEKLAEWVLTQREQQLP VNEETLFQKATKIGRSLEGGFKISYEWAVRFLRHHLTPHARRA VAHTLPKDVAENAGLFIDFVQRQIHNDPLSMIVAIIDEISLFL DTEVLSSDDRKENALQTVGTGEPWCDDVLAAILADGTVLPTLVFY RGQMDQPANMPDSILLEAKESGYSDEIMELWSTRVWQKHTACQ RSKGMVMDCHRTLSSEVLAMLSASSTLPAVVPAGCSSKIQPL DVCIKRTVKNFHLKKWKEQAREMADTACDSVLLQLVLVWLGEV LGVIGDCPELVQRSFLVASVLPDPGNINSPTNRNADMQEELIAS LEEQLKLSGEHSESSTPRPRSSPEETEPESLHQLFEGESETES PYGFEEADLDLMEI</p>
6136	1704	539	<p>PGVRRMALEGMSSKRRKRSVQEGENPDDGVRGSPPEYRLGQVAS SLFRGEHHSRGGTGRLASLFSLEPQIQPVVVPVK\ESALASA DLEEEIHQKQGQKRRNSQPGVKVADRKILDDTETVVSQRKKIQ INQEEERLKNERTVFGVNLPTCNKKKLSFFKEYGQIESVRFR SLIPAEGTLSKKLAAIKRKIHFDQKNINAYVVFKEESAATQALK RNGAQIADGFRIIRDVLASETSSRDKRSVFVGNLPYKVBESAIEK HFLDCGSIMAVRIVRDKMTGIGKGFYVLFENTDSVHLALKLNN SELMGRKLRVMRSVNKEKFKQNSNFRKKNVSKPKQGLNFTSKT AEGHPKSLFIGEKAVLLKTKKKGQKSGRPKKQKQKQK</p>
6137	141	2656	<p>RALRKRRCGPGRRGALGSGGPGPQRRPGRVPEERPAFPRERKHFG MWNMLIVAMCLA\LLGLFGKAQELQGHVS\IILAGEQLGDLAKK YLWQG\LFQLYLDEAGRGHSFSPHGAALTAPKQGQELMAKALE LSCPKDMAPSHCAEHKQDQLQLSQYRQLKTAEDYOALNKDIEAQ LQHAGLREAGGIFYFSVPPFAYEDIARNINSSCRPGPGAWLRVV LEKPFCHDHFSAQQLATELGTFQEEEMYRVVDHYLGKQAVAIIL PFRDQNRKALDGLWNRHHVERVEIIMKETVDAEGRTSFYEEYGV IRDVLQNLTEVLTVLVAMELPHNVSSAEAVLRHKLQVFOALRGL QRGSVVVGQYQSYSEQVRRELQKPDSEHSLTPTFAGVLVHIDNL RWEGVPFILMSGKALDERVGYARILFKNQACCQSEKHWAAQS QCLFRQLVFHGHGDLGSPAVLVSRLFRPSLSPSSWKEMEGPPG LRLFGSPLSDYYAYSFVREDAHSVLLSHIFHGRKNFFITTENL LASWNFWTPLLSELAHKAPRLYPGGAENGRLDDEFSSGRLFFS QQQFEQLVPGPGPGMPSPDFQVLRKYRESSLVSAWSEELISKL ANDIEATAVRAVRRPGQPHALSGGSSPVLFQQLATAHYGFPPW AHTHLWLVDERCVPVLPSPESNFQGLQAHLLQHVRIPIYYNIH\AM PVHLQORLCAEEDQGAHIYAREISALGANSFDFLLGMDGADGH TASLFPQSPPTGLDGEQLVLTTSFSPQPHRRMSLSLPLINRAKKV AVLVMGRMKREITTLVSRVGHGPKKWPISGVLPHSGQLVWYMDY DAFLG</p>
6138	4587	934	<p>EFSKLTDRWQNAVQGVQRKGDVDGLVRQWQDFTTSVENLFRFL TDTSHLLSAVKQGERFSLYQTRSLIHELKNEIHFQRRRTTCAL TLEAGEKLLTTDLTKESVGRRIISQLQDSWKDMEPQLAEMIKQ FQSTVETWDQCEKKIKELKSRLQVLKAQSEDPPELHEDLHNEK ELIKELEQSLASWTQNLKELQTMKADLTRHVLVEDVMVLKEQIE HLHRQWEDLCRLVAIRKQIEIDRLNTWVVFNEKNKELCAWLQVM ENKVLQTDADISIEEMIEKLQKDCMEEINLPSBNKLQKQMGDQL IKASNKSRAAEIDDKLNKINDRWQLHFDVIGSRVKKLKFAPFI QQLDKNMSNLRITWLARIESELSPVVDVCDQEIQRRLAEQQD LQRDIEQHSAGVESVFNICDVLHDSACANETECDSIQQTTRS LDRWRNRCAMSMERRMKIETWRLWQKFLDDYSRFEDWLKSAE RTAACPNSSSEVLYTSAKEELKRFQFQRIHERLTQLELINKQY RRLARENRTDTASRLKQMVHEGNQRWDNLQRRVTAVLRLRHFT</p>

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			NQREEFEGTRESILVWLTEMQLTNVEHFSSESADDDKMRQLNG FQOEITLNTNKIDQLIVFGEQLIQKSEP\LDVAVLIEDELEELHR YCQEVFGRVSRFHRRLTSCTPGLDEKEASENETDMEDPREIQT DSWRKRGESEEPSSPQSLCHLVAPGHERSGCETPVSVDS\IPLE WDHTGRRGGPSSSH\EEDEEAQYY\SALSGKSIDGHSWHVPDS PSCPEHHYKMEGDRNVFPVPASSTPYKPPYGLLLPPGTDGG KEGPRVLNGNPQQEDGGLAGITEQQSGAFDRWEMIQAQEL\HNK LKIKQNLQQLNSDISAITTWLKKTEAELEMLKMAKPPSDIQEIE LRVKRLQELKAFDITYKALVSVNVSSKEFLQTESPESTELQSR LRQLSLLWEAAQGAVDSWRGLRQSLMQCQDFHQLSQNLLLWLA SAKNRRQKAHVTDPKADPRALLECRRLMQLKELVERQPQVDM LQEISNSLLIKHGECIEAEKVVHVI\EKKLKQLREQVSQDLM ALQQTQNPASPLPSFDEVDSGDQPPATSVAPRAKQFRAVRTTE GEEETESRVPGSTRPQRSFLSRVRAALPLQLLLLLLLACLL PSSEEDYSCTQANNF\ARSFYPMRLRYTNGPPPT
6139	52	1131	LGDVWWSRTCGVLETPTSVLRARARGPCPTDSKWALPRLREGE TERRPWEASSWKT/LAGWIGGAASVIVGHPDVTVKTRLOAGVG YGNTLSCIRVVYRRESMFGFFKGMSPFLASIAVNSVVFVGSN TQRFSLQHRCEPEASPPRTLSDLLASMVAGVSVGLGGPVDL IKIRLQMOTPPVSGRQPRFEVQSGSGCG\EPAYQGPVHCITITV RNEGLAGLYRGASAMLLRDVPGYCLYFIPYVFLSEWITPEACTG PSPCAVWLAGGMAGAI SWGTATPMDVVKSRLOADGVYLNKYGKV LDCISQSYQKEGLKVFFRGITVNAVGRGFMSAAMFLGYELSLQA IRGDHVTSP
6140	594	136	RPELEWLRLRSRWRPLGVPRRCHRRNWKEPVRQAQPLSVTVWAP RCQRP/QPPAPEPSSPNAAVPEAIPTPRAAASAALEPLGPAPV SVAPQAEAEARSTFGPAGSRGCPETFRQRFQFRYQDAAGPREA FRQLREL/SPRQWLRPDI\RTKEQ\IVEMLVQEQLLAILPEAAR ARRIRRTDVRI TG
6141	2	984	AQVGRSRPCKMPLKLRGKKAKSKETAGLVEGEPTGAGGGSLS ASRAPARRLVFHAQLANGSATGRVEGFSSIQELYAQIAGAFES PSEILYCTLNTPKIDMERLLGGQLGLEDFFAHVKGIEKEVNVY KSEDSLGLTITDNGVGAFIKRIKGGVIDSVKTCVGDHIESI NGENIVGWRHYDVAKKLKELKKEELFTMKLIEPKKAFIEIERSK AGKSSGEKIGCGRATLRLRSKGPATVEEMPSETKAK\AIEKIDD VLELYMGIRDIDLATTMFEAGKDKVNPDEFAVALDETLDGFAPF DEFVFDVWGVIGDAKRRL
6142	116	602	EABGEQVCGAKCCGDAPHVENREETARIGPGVMESKEERALNN LIVENVNQENDEKDEKEQVANKGEPLALPLNVSEYCVPRGNRRR FRVRQPIQYRWDIMHRLGEPQARMREENMERIGEEVRQLMEKL REKQLSHSLRAVSTDPHHDHDEFC\LMP
6143	2802	270	FRMRIFLHCPWNQMMRWIWNLETSLESCKAHLSTQKLLKER/Q \QLPVFKHRDSIVETLKRHRVVVAGET\GSGKSTQVPFHLLD LLNWEWASKCNIVCTQPRRISAVSLANRVCDLGCENGPGGRN SLCGYQIRMESRACESTRLLYCTTGVLLRKLQEDGLLSNVS/HM FIVDEV\HER\SVQSDFLLIILKEILQKRSDLHLILMSATVDSE KFSTYFTHCFILRISGRSYPVEVFHLEDIEETGFVLEKDYCY QKFLSEEEVNTINVTSKAGGIKKYQEIIPVQTGAHADLNPFFYQK YSSRTQHALLYMNPHKINLDLLELLAYLDKSPQFRNIEGAVLI FLPGLAHIQQLYDLSNDRFYSEYKVIALLHSILSTQDQAAAF TLPPPGVRKIVLATNIAETGITIPDVVFVIDTGRTKENKYHES QMSSLVETVFSKASALQROGRAGRVRDGFRCFRMYTRERFEGFMD YSVPEILRVPLEELCLHIMKCNLGSPEDFLSKALDPPQLQVISN AMNLLRKIGACELNEPKLTPLGQHLAALPVNVKIGKMLIFGAIF GCLDPVATLAAVNTKSPFTTPIGRKDEADLAKSALAMADSDHL TIYNAYLGWKKARQEGGYRSEITYCRRNFLNRTSLLTLEDVKQE

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			LIKLVKAAGFSSSTTSTSWEGNRASQTLSFQETALLKAVLVAGL YDNVNGKIIYTKSVDTVTEKLACIVETAQGKAQVHPSSVNRDLQTH GWLLYQEKIRYARVYLRETTLITPFPVLLFGGDIQVQHRERLLS IDGWIYFQAPVKIAVIFKQLRVLIDSVLRRKLENPKMSLENDKI LQITELIKTENN
6144	1289	568	SGPGSMGSGQRVDVVMVLGKEYVGKTSLVERYVHDFLVGPYQN VSASGGARHGGRSGGPGVICTYGPDLFPLVA\TIGAAFVAKVMS VGDRTVTGLGINDTAGSEREYAMSRIYYRGAKAAIVCYDLTSSS FERAKFWVKELRSLEEGCQIYLCGTKSDLLEDRRRRRVDFHDV QDYADNIKAQLFETSSKTGQSVDELQKVAEDYVSVAAFQVMTE DKGVLDLQKPNPYFYSCCHH
6145	1109	196	GGMDLSELERDNTGRCRLSSFPVPAVCRKEPCVLGVDEAGRGFVL GPMVYAI CYCPLPRLADLEALKVADSKTLLESERERLFAKMEDT DFGWALDVLSPNLISTSMGLGRVKYNLSLSHDTATGLIQYALD QGVNVTQVFVDTVGMPEYQARLQSQSPFGIEVTVKAKADALYPV \VSAASICAKVARQAVKKWQFVEKLQDLTDYQ\SGYPNDPQD /TKAWLKEHVEPVF\GFP\QFVRF\SWRTAQTI\LEKEAEDVIR EDSASENQEGRLKITSYFLNEGSQARPRSSHRYFLERGLESTTS L
6146	428	781	LKKKGKEKAEAQVVEALPGPSLDQWHSRAGEEEDGPVLTDEQKS R/YPGHEAHDQGG\WDAROSIRKVVDPETGRTRLIKGDGEVLE EIVTKERHREINKQATRGCCLAFQMRAGLLP
6147	1	2304	GTRQLPPPSPGSGPGDSPEGPEGEAPERERRKAHGMKLKLYGLSE GEAGRPPAGPDPLDPTDLNGAHFDPVYLDKLRRECPLAQLMDS ETDVVRQIRALDSMQTLVYENYNKFI SATDTIRKMKNDFRKME DEMDRLATNMVAITDPSARISATLQDRHERITKLAGVHALLRKL QFLFELPSRLTKCVELGAYGQAVRYQGRAQAVLQYQHLPSFRA IQDDCQVITARLAQQLRQRFREGGSGAPEQAECVELLLALGEP A EELCEEFLAHARGRLKELRNLEAELGPSPPAPDVLEFTHG\ S SGFVGGLCQVAAAYQELFAAQGPAGAEKLAFAARQLGSRFYALV ERRLAQEQGGGDNLSLLVRALDRFHRLRAPGALLAAGLADAAT EIVERVARERLGHHLQGLRAAFLGCLTDVQALAAPRVAGKEGP GLAELLANVASSILSHIKASLAAVHLFTAKEVSFSNKPYPFRGEF CSQGVREGLIVGFVHSMCQTAQSFCDSPGEGKGATPPALLLLLS RLCLDYETATISYILTLTDEQFLVQDQFPVTPVSTLCAEARETA RRLTHYVKVQGLVISQMLRKSVETRDWLSTLEPRNVRAVMKRV VEDTTAIDVQVLPRLAGVALTQAGGTVP SRGAGAAEDHWQSLPG GGDNCIWASHGASSVARASVREPQGNKSPRMNTKRAGECLCPRS CSFSAQDYDIFAPILPVEKQRLRVTEVRAGLVVLKIRPQTNS CILPLPHSTGSINSDHVPTK
6148	3056	353	VPAVGGTFADGANGAEKGFHYIYSCDLDINVQLKIGSLEGKREQ KSYKAVLEDPMLKFSGLYQETCSLDLYVTCQVFAEGKPLALPVRT SYKAFSTRWNWNEWLKLVPKYPDLP RNAQVALT IWDVYGP GKAV PVGGTTVSLFGKYGMFRQGMHDLKVWPNCRSQMDQKPTKTPGRT SSTLSEDMRLAKLTKAHRQGHMVKVDWLDRLTFREIEMINES VKRSSNFMYLMGGFRCVKCDDKEYGIVYVEKDGDESSPILTSFE LVKVPDPQMSLENLVESKHHNLPRLSRSGPSDHDLPKYPSPRDQ LKNIVSYPPSKPPTYEEQDLVWEFRYLYLTNQDKALTKILTSVIW DLPQGAQALALLGKWKPMVDVEDSLELLSSHYTNPTVRRYAVAR LRQADDEDLLMYLLQLVQALKYENFDDIKNGLEPTKKDSQSSVS ENVSNSGINSAEIDSSQIIT/SAPFPSVSSPPP\ASKTKEVPDG ENLEQDLCTFLISRASKNSTLANLYWYVIVECEDQDTQQRDPK THEMILNVMRRF SQALLKGDKSVRVMRSLAAQQT FVDRLVHLM KAVQRESGNRKKKNERLQALLGDNEKMNLSDELIPLEPQVK IRGIIPETATLFKSALMPAQLFFKTEDGGKYPVIFKHGDDLRQD QLILQIISLMDKLLRKENLDLKLTPYKVLATSTKHGFMQFIQSV

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			PVAEVLDTGEGSIQNFRRKYAPSENGFNGISAEVMDTYVKSCAGY CVITYILGVGDRHLDNLLLTGKLFHIDFGYILGRDPKPLPPP MKLNKEMVEGMSGTQSEQYQEFRKQCYTAFHLRRYSNLILNLF SLMVDANIPDIALPDKTVKKVQDKFRLDLSDEEAVHYMQSLID ESHALFAAVVEQIHKFAQYWRK
6149	1	1413	RVDPRVRENGTANPIKNGKTSASPASKDQRTGKKTSSVQGVQKQND ESESDPESDPPSPKSEEEEEQDDEVLQGEQGFNDDETEPENL GHRPLLMDSDESEEEKHSSDSYEQAKAKYSMSVYRDRSGS GPTQDLNTILTSACLSSDVAVETPKQEFDFVGAVPFFAVRAQQ PQQEKNEKNLPQHRFPAAGLEQEEFDFVTKAPFSKKVNVQCEHA VGPEAHTIPGYPKSVDFVFGSTPFPFLTSTSKSESNEDLPLGLVP FDEITGSQQQKVKQSLQKLSSRQRRTKQDMKSNKGRHHGTPT STKTKTLKPTYRTPERARRHKKVGRDSQSSNEFLTISDSKENIS VALTDGKDRGNVLQPEESLLDPFGAKPFHSPD\LSWHPP\HQGL S\DIRADHNT\VLPGR\PRQNSLHGSFHSADVLMKDDFGAVP/F LTELVSQSIPTHQSSQSPV\ELDPFGAAPPFSKQ
6150	372	37	MSNIKKYIIDYDWKASIEIEIDHDMTEKHLQINNFWSDSEYR LNKHGSVLNAVLIMLAQHALLIAISSDLNAYGVVCEFDWNGNG QEGWPPMDGSEGIRITDIDTSGIF
6151	1555	521	DSNQSVSGTAASLLHSFKATIIYQGTGHVQQQFYGVTSPPYSQT TPIIVQSYAQPSLQYIQGQOIFTAHPQGVVQPAAVTTIIVAPG QPQPLQPSMNVNLLDLPPSPPKPTIIVLPNNWKTARDPEG KIYYHVITROTQWDPTWESPGDDASLEHEAEMDLGTPTYDEN PMK\ASKKPKTAEADTSSSELAKKSKEVFRKEMSQFIVQCLNPYR KPDCVKG\RITTTEDFKHLARKLTHGVMNKLKVCNPE\DLCE NENVKHKTKEYIKKYMOKFGAVYKPKEDTEPRVTVGPGWEDGWS GKTDSESRKSCGPFCTPVSTVLLMIHHPGEFNPADVN
6152	1366	648	NRTWSTPSTWNGVALPPLCSTGFWPVTRQITARTTCGAVPAKCP PWC/DVHEPRCQPPDCHGHGTCVDGHCQCTGHFWRGPGCDELDC GPSNCSQHGLCTETGCRCDAGWTGNSCSEECPLGWHGPGCQRPC KCEHHCPCDPTGNCSVSRVKQLQPPPEATLRAGELSFFTRTAM LALTLALAFLLLLISTAANLSLLLSRAERNRRLHGDYAYHPLQEM NGEPALAAEKEQPGGAHNPFKD
6153	2	3368	GRVGARSPGRAYALLLLLCFNVGSGLHLQVLSTRNENKLLPKH PHLVRQKRAWITAPVALLEGEDLSKNPIAKIHSDLAEERGLKI TYKYTGKGITEPPFGIFVFNKDTGELNVTSILDREETPFFLLTGC YALDARGNNVEKPLELRKVLIDYDNEPVFTQDVVFGSVEELSA AHTLVMKINATDAEPNTLNSKISYRIVSLEPAYPPVFLNKTG GEIYTTSVTLDRREEHSSYTLTVEARDGNGEVTDKPVKQAQVQIR ILDVNDNIPVVENKVLGEMVEENQVNVETRIKVFDADEIGSDN WLANFTFASGNEGGEYFHIETDAQTNNEGIPTLIKEVDYEEMKND FSUVIVANKAAPHKSIKSKYKPTPIPIKVKVKNVKEGIFHKSSVI SIYVSESMDRSSKGQIIGNFQAFDEDTGLPAHARYVKLEDRDNW ISVDSVTSEIKLAKLPDEFESRYVQNGTYTVKIVAISEDPKRTI TGTVLINVEDINDNCPTLIEPVQTIHDAEYVNVTAEDLDGHPN SGPFSSVIDKPPGMAEKWKIARQESTSVLLQQSEKLGRIEQ FLISDNQGFSCPEKQVLTITVCEVLHGS\GCREAQHDSYVGLGP AALALMILAFLLLLVPLLLLMCHCGKAGKGFPIPGTIEMLHP WNNEGAPPEDKVVPFLPVDQGGSLVGRNGVGGMAKEATMKGSS SASIVKGQHEMSEMDGRWEEHRSLLSGRATQFTGATGAI\MTTE TTITARATGASRDVAGAAVAALNEEFKNYFTDKAASYTEED ENHTAKDCLLVYSQETESLNASIGCCSFIEGELDDRFLDDLGL KFKTLAEVCLGQKIDINKEIEQRQKPATETSMNTASHSLCEQTM VNSENTYSSGSSFPVPKSLQEANAQKVTQEIIVTERSVSSRQAQK VATPLPDPMASRNVIAETSYVTGSTMPPTTVILGPSQPSLIV TERYAPASTLVDPQPYANEGTVVTVTERVIQPHGGSNPLEGTQH

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			LQDVPYVMVRERESFLAPSSGVQPTLAMPNIAVGQNVTVTERVL APASTLQSSYQIPTENSMTARNITVSGAGVGPPLPDFGLEESGH SNSTITTSSTRVTKHSTVQHSYS
6154	3660	2146	KKTKMKNTLQKTNFGAWPKPTISDKSHLLQMVSKLDLTDKRN SDTAHIKSIETITSLNGLQASESSAEDSEQBERGAQDMNDNGK EESKIDHLTNNRNDLISKEEQNSSSLLEENKVHADLVISKPVSK SPERLRKDIEVLSEDDTYEEDVTKKRKDKVKKDTDKSSKPKQIK RGKRRYCNTECLKTGSPGKKEEAKNKEKSLCMENSSNSSDDED EETKAKMTPTKKYNGLEEKRSRLRTGFGYSGFSEVAKRIKLL NNSDERLQNGRAKDRKDVWSSIQQGQWPKTLKELFSDSDTEAAA SPHPAPEEGVAEESLQTVAAEESCSPSVELEKPPFPVNVDSKPI EKTVEVNRKAEPSSGSNFSA*IPLPYLHLNRLHQSL*QKGS RQSSVTVSEPLAPNOBEVRSIKSETDSTIEVDSVAGELQDLQS ERE*LASRF*QCELEQ**SARTRTS*KSLYRSEKSEKSGRRK FIKKAEEKP*SNSGKQKQEGK
6155	869	121	HLLPELRGKSWITMKYVFLGLVLAGTFFADSSVQKEDPAPYLV YLKSHFNPCVGLIKPSWVLAPAHCYLPNLKVMGNPKSRVRDG TEQITNPIQIVRYWNYSHSAPQDDMLIKLAKPAMLNPKVQALN P/PTTNVRPCTVCLLSGLDWSQENSGRHPDLRQNLAPVMSDRB CQKTEQGGKSHRNLSCVKFVKVFSRIFGEVAVATVICKDKLQIE VGHFMGGDVGITYNVYKYVSWIENTAKDK
6156	5725	3984	GTSTVTMATKKHFSITLNLGMLLKKDNQDTRKLLMTWALEVAV VMKSETYAPLFLCPSFHKFCCKGLADTLVEDVNICLQACSSLH ALSSSLPDDLQRCVDVCRVQLVHRGTICIRQAFGLLKSIPLG FLSNNNHTEIQEISLALRSHMSKAPSNTHFPQDFSD/VISFILY GNSHRTGKDKWLERLFYSCQRLDKRDQSTIPRNLKTDVWLQW AIWAAQFTVLSKLRTPLGRAQDTFQITIEGIIRSLAGHTLNPQ DVSQWTTADNDEGHGNNQLRLVLLQYLENLEKLMYNAYEGCAN ALTSPPKVIRTFLYTNROTCDWLTRIRLSIMRVGLLAGQPAVT VRHGFDLLTEMKTTSLSQGNELEVSIMMVVEALCEHLCPAIOG IAWSSSIVGKHLWINSVAQQAEGRFKASVEYQEHLCAMTGV DCCISSFDKSVLTLASAGCKSASLKHCLNGESRKSLSKPTDSS PEVINYLGNKACECYISTADWAAVQEWQNAIHDLKSTSTSLN LKADFNIKSLSSFESGKFVECTEQLELLPGENINLLAGGSKBK IDMKLLLRNM
6157	946	329	MANRGPSTGLSREVQEKEIEQKYDADLENKLDVWITLQCAEDIEH PPGGAHFQKWLMDGTVLCKLINSLYPPGQEPKPKISESKMAFK QMBQISQFLKAAETYGVRTTDIFQTVDLWEGKDMAAVQRTLMAL GSVAVTDDGCGYRGEPSWFHRKAQQNRRGFSEQLRQGNVIGL QMGSNKGASQAGMTGYGMPRQIM*DAASC
6158	441	1482	LGSILVLSLHCKVIFSSQSLERAMKEKAVDLVPTLAQNFGLAQN PILEGKDHNTGTGVDPIIDHVQDRKTD/SRSKSPHKRSKSRER RKSRSRSHSRDKRDKTREKIKERKERVKEKREKEREREKEREKE KERGNKDRDKREKREKDKREKREKEREKEHEKDRDKEKEKE QDKEKEREKDRSKEIDEKRRKDKKSRTPPRSYNASRRSRSSRE RRRRSRSSSRSPRTSKTIKRKSSSRSPSRNRNKKDKREKERD HISERRERERSTSMRKSNDRDGKEKLEKNSTSLKEKEHNKEPD SSVSKEVDDKAPRTEENKIQHNGNCQLNEENLSTKTEAV
6159	53	84	AVIAPLHISLGDRAAPYLKNTKSSSTTCSSRRRNQSFPPVMSLTH RLHLCKYWGCAVSNVCRFWEGRPLPLMIVVPYTLFVSLFVGSV IITGTPILTFVKDPQLEVNFYTGMDSDIAFQFRLHFGHPAIM NSCVFGIWRYEKCYLPPEDGKPFELCIYVRHKEYKVMVNGQR IYNFAHRFPFASVKMLQVFRDISL/RLVLSID*GRCVRITAVQEF DVSVCDCCTTAYQPG
6160	1626	1790	AGAKFFP*F*KVADAQPTSESEKEIYNQVNVVLKDAEGTLEDLQS YRGAGHEIREAIQHPADEKLQEKAWGAVVPLVGKLLKFFYESQR

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			LEAALRGILLGALTSTPYSPSTQHLEREQALAKQFAEILHFTLRFD ELKMTNPAIQNDFSYRRILSRMRINNVPAGEVNEVNNELANRM SLFYAEATPMLKTLSDATTKFVSENKNLPIENTIDCLSTMASVC RVMLETPEYRSRFTNEETVSFCLRVVMGVIIILYDEVHPVGAFAK TSKIDMKGCIKVLKDQPPNSVEGLLNALRYTTKHLNDETTSSKQI KSMQLQ*QLLTLVNKG
6161	455	1569	PVSGSESSLRAWASILRLMLGPRVAVSILCEDGISH*LLEKH* KSHVLEPLSSLALBQCLALSLDWSTGKTGRAGDQPLKIISSDS TQQLHLLMVNETRPRLOKVASWQAQFEAWIAAFNYWHPRIIVS GGDDGLLRGWDRVPGKFLFTSKRHTMGVCSIQSSPHREHILAT GSYDEHILLWDTRNMKQPLADTPVQGGVWRKWHFFHHLLLLAA CMHSGFKILNQCQKAMEERQEATVLTSHTLPLDSLVYGADWSWLLF RSLQRAPSWSPFNLTGTADLKGASELPTPCHECREDNDEGEH ARPOSGMKPLTEGMRKNGTWLQATAATTRDCGVNPEEADSAFSL LATCSFYDHALHLWEWEGN
6162	1	586	RTIHATGRAGASPMHRLIVWRLAEANKQHVRCQKCLEFGHWTVE CTGKRKYLHRPSRTAELKKALKEKENLLQLQSIGETNVERKAK KKRSKSVTSSSSSSSDSSASDSSSESEETSTSSSSSDSDTDESS SSSSSSASSTSSSSSDSDSDSSSSSKQ*HQHR*QL*R*TTKEE EKEIELLHSYWTGDKLTLM
6163	1081	785	RIRSTTEGCAVRLHPTQNTGKARIMILLSVSLGRHWAFTYKFFL TPVVVFVFFFFPHRKE*VMQKNPMKREDEWMEKLNHLHVQRAD MNRLLIMNYLVTEGFKAAEKFRMESGIEPSVDLETLDERIKIRE MILKGQIQEAIALINSLHPELDTNRYLYFHLQOQHILIRQR ETEAALEPAQTQLAEQGEESRECLTEMERTLALLAFDSPEESP GDLHMTMQRQKQVWSEVNQAVLDYENRESTPKLAKLLKLLWQON ELDQKKVKYPKMTDLSKGVIEEPK
6164	90	406	PCQSPGSRMRQDKLTGSLRRGGRCCLKRQGGGVGTILSNVLKKR SCISRTAPRLCTLEPGVDTKLKFTLEPSLGQNGFQQWYDALK VARLSTGIPKEWRRKVWLTADHYLHSIAIDWDKTMRTFNERS NPDDDSMGIIQIVKDLHRTGCSYCGQEAQDRVVLKRVLLAYAR WNKTGVYCGGFNLAALILEVMEGNEGDAKIMYILDKVLPES YFVNNLRALSVDMAVFRDLLRMKLPESLQHLDTLQRTANKESGG GYEPPLTNVFTMQWFLTLFATCLPNQTVLKIWDSVFPFEGSEIIL RVSLAIWAKLGEQIECCETADEFYSTMGRLTQEMLENDLLQSHE LMQTVYSMAFPFPQLAELREKYTYNITPPFATVKPTSVSGRHS KARDSDEENDPDDDAVNVAVGCLGPFSGFLAPELQYQKQIKE PNEEQSLRSNNIAELSPGAINS CRSEYHAAFNMMMERMTTDIN ALKRQYSRIKKKQQQVHOVYIRADKGPVTSILPSQVNSSPVIN HLLLGKKMKMTNRAAKNAVIHPGHTGGKISPVYEDLKTKLNS PWRTHIRVHKKNMPRTKSHPGCGDTVGLIDEQNEASKTNGLGAA EAFPSGCTATAGREGSSPEGSTRRTIEGQSPEPVFGDADVDVSA VQAKLGALELNQDAAAETELRVHPPCQRHCPEPPSAPEENKAT SKAPQGSNSKTFIFSPFPFVKPLRKSATARNLGLYGPTEERTPTV HFPQMSRSFSKFGGNSGP*KMVFSSGTMLSRQLPGYPQEQYQRN GGERFG
6165	90	406	PCQSPGSRMRQDKLTGSLRRGGRCCLKRQGGGVGTILSNVLKKR SCISRTAPRLCTLEPGVDTKLKFTLEPSLGQNGFQQWYDALK VARLSTGIPKEWRRKVWLTADHYLHSIAIDWDKTMRTFNERS NPDDDSMGIIQIVKDLHRTGCSYCGQEAQDRVVLKRVLLAYAR WNKTGVYCGGFNLAALILEVMEGNEGDAKIMYILDKVLPES YFVNNLRALSVDMAVFRDLLRMKLPESLQHLDTLQRTANKESGG GYEPPLTNVFTMQWFLTLFATCLPNQTVLKIWDSVFPFEGSEIIL RVSLAIWAKLGEQIECCETADEFYSTMGRLTQEMLENDLLQSHE LMQTVYSMAFPFPQLAELREKYTYNITPPFATVKPTSVSGRHS KARDSDEENDPDDDAVNVAVGCLGPFSGFLAPELQYQKQIKE

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			<p>PNEEQSLRSNNIAELSPGAINSCRSEYHAAFNSMMMERMTTIDIN ALKRQYSRIKKKQQQVHQVYIRADKGPVTSILPSQVNSSPVIN HLLLGKKMKMTNRAAKNAVIHIPGHTGGKISPVYEDLKTILNS PWRTHIRVHKKNMPRTKSHPGCGDTVGLIDBQNEASKTNGLGAA EAFPSGCTATAGREGSSPEGSTRRTIEGQSPEPVFGDADVDVSA VQAKLGALELNQRDAAAE TELRVHPPCQRHCPPEPPSAPENKAT SKAPQGSNSKTFIFSPFPVKPLRKSATARNLGLYGPTERTPTV HFPQMSRSFSKPGGNSGP*KMVFSSGTMLSRQLPGYPQEQYQRN GGERFG</p>
6166	2	1206	<p>HKLWRTVAMAGAENKSLBECLEKHLPLDQLQEVKRVLYGKELRK LDLPREAFEAASREDFELQGYAFEAEEQLRRPRIHVGLVQNR IPLPANAPVAEQVSALHRRRIKAIVEVAMCGVNIICFQEAWTMP FAPCTREKLPWTEFAESAEDGPTTRFCQKLAKNHDMVVVSPILE RDSEHGDVLWNTAVVISNSGAVLGKTRKNHPRVGDNFESTYYM EGNLGHFPVFTQFGRIAVNICYGRHHPLNWLMSYNGABIFNP SATIGALSESLWPIEARNAAIANHCFTCAINRVGTEHFPNEFTS GDGKKAHQDFGYFYGSSVVAAPDSSRTPGLSRSDGLLVAKLDL NLCQQVNDVWNFKMTGRYEMYARELAEAVKSNYSPTIVKE*PAS VPALG</p>
6167	1220	1844	<p>YGIVTGPSLCAGDKQPKQKEKNPVLVSPEFVDEALCACEEYLSN LAHMDIDKLEAPLYLTPEGWSLFLQRYQVVEGAELRHLDTQ VQRCEDILQQLQAVVPQIDMEGDRNIWIVKPGAKSRGRGIMCMD HLEMLKLNVGNPVVMKDGKVVQKYIERPLLI FGTKFDLRQWF LVTDWNPLTVWFYRDSYIRFSTQPPSLKNLKD*APLYLTPEGWS LFLQRYQVVEGAELRHLDTQVQRCEDILQQLQAVVPQIDMEG DRNIWIVKPGAKSRGRGIMCMDHLEMLKLNVGNPVVMKDGKVV VQKYIERPLLI FGTKFDLRQWFLVTDWNPLTVWFYRDSYIRFST QPFSCLKNLKD</p>
6168	84	1392	<p>VWFPVSVSAMPKKQAQAGGSKKAEQKKKEKIEDKTFLGKKNK GAKQKFIKAVTHQVKGQONPROVAQSEAEKCLKDDKKKELQ ELNELFKPVVAAQKISKADPKSVVCAFFKQGCQTKGDKCKFSH DLTLEKCEKRSVYIDARDELEKDTMDNWEKLEEVVNNKKHG EASKKKPKTQIVCKHFLEAIENNKYGFVWVCPGGGDI CMYRHAL PPGFVLKKKKKKKKBEISL*DLIERERSALGPVNTKITLESF LAWKRRKQEKIDKLEQDMERRKADFKAGKALVISGREVFETRP ELVNDDEEADDTRYTQGTGGDEVDSVSVNDIDLSLYIPRDVD ETGITVASLERFSTYTSKDKENKLEASGGRAENGERSDLEEDN EREGTENGAI DAVPVDENLFTGEDLDELEELNTLDLEE</p>
6169	112	662	<p>APAAAMAERPEDLNL PNAVITRII KEALPDGVNISKEARSATSR AASVFLYATSCANNFAMGKRKTLNASDVLSAMEEMEFQRFVT PLKEALEAYRREQKGKKEASEQKKDKDKKTDSEEQDKSRDEN DEDEERLEEBEQNEEEVDN*KGRETAPWKVPLEMRRATCFCE AFPCWAE</p>
6170	62	667	<p>STKVMLPNTGRLAGCTVFTIGASRGIGKAIKAAKDGANIVIA AKTAQPHPKLLGTIYTAABEIEAVGGKALPCIVDVRDEQQISAA VEKAIKKFGGIDILVNNASAI SLTNTLDTPTKRLDLMNVNTRG TYLASKACIPYLKKSXVAHIPNISPPNLNPNVWFKQHCGRW*VV G*GDGLCLICFELNLCMSDVITICT</p>
6171	382	941	<p>HFMQSDVELDCDIEPCGHTKFPPTLPLSTTVIVCSCHPVATAST MAEAFSKTTSEEDQSIQEPKEANSMTAQKQKK*GLRGSRRRHAN SGGDIFGDSFAAYFPRVLQVHQALSLSQEAHSVMDSMVRDILD RIATEAGHLAHYSKCVTITSRDIRMAVCLLLPGMKGLAESQGT NATLRYTKSK</p>
6172	651	54	<p>GLCRAGGAHRFSRTHVEAALKMLRREARLRREYLYRKAREEAQR SAQERKERLRRALEENRLIPTELRREALALQGSLEFDDAGGEGV TSHVDDEYRWAGVEDPKVMITTSRDPSSRLKMFALKL VFFPGA</p>

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			QRMNRRHEVGALVRACKANGVTDLLVVEHRTGTPVGLIVSHLP FGPTAYFTLCNVVMRHDIPDLGTMSEAKPHLITHGFSSRLGKRV SDILRYLPFPVKDDSHRVITFANQDDYISFRHHVYKKTDRHNVE LTEVGPREFELKLYMIRLGTEQEATADVWRNHPYTNTRARKRVF LSTE*AAPRPLGQLL
6173	3	288	SVDRHEVQVLSQSMPLTPHQAVALRGERPYMCVECGKCFGRSSHL LQHQRIHTGKPYVCSVCGKAFSQSSVLSKHRTIHTGKPYECN ECGKAFRVSSDLAQHHKIHTGKPEHCLECRKAFTQLSHLQHQ RIHTGERPYVCPGKAFNHSTVLRSHQRVHTGKPHRCNECGK TFSVKRTLLQHQRIHTGKPYTCSECGKAFSDRSVLQHHNVHT GKPYECSECGKTFSHRSTLMNHERIHTEEKPYACVECGKAFVQ HSHLIQHQKVRKL*PTCVLSVGSALAGVPTSFSISVSTLERSP MCAVYVGRPSARAQSLVNTGQFTQVRSPMSVMSVEKPLE
6174	1060	959	PRPPKRWVAGLGNPGLPGTRHSVGMVGLQARRLGVAESWT RDRHCAADLALAPLGDALVLLRPRRLMNANGRSVARAEELFGL TAEVYLVDDELDPGLRLALGLGSSARGHNGVRSCLNSNA MPLRVGIGRPAHPEAVQAHVLGCFSPAEQELLPLLLDRATDLI LDHIRERSQGPSLGP*H*WFSKKA
6175	2204	334	RYFRADPRSRSGQPRAEGLGAFAGPLRAMAAPVGNRRKQSTEG DALDPPASPKPAGKONGIQNPISLEDSPAGGEREEQEREEO AFLVSLYKFMKERHTPIERVPHLGFQKINLWKIYKAVEKLGAYE LVTGRRLLWKNVYNELGSGSPGSTSGATCTRRHY*RLVLPYVRHLK GEDDKPLPTSKPRKQYKMAKENRGDDGATERPKKAKEERRMDQM MPGKTKADAADPAPLPSPQEPNRNSTEQQLASGSSVSFVGASGC PEAYKRLSSFYCKGTHGIMSLAKKLLAQVSKVEALQCEEG CRHGAEPAQASPAVHLPSPQSPKGLTENSRLHLPQEGQLQAPGG SLREEAQAGPCPAAPIFKGCFTYTHPEVLKPVSOHPRDFSRLLK DGVLLGPPGKEGLSVKEPQLVWGGDANRPSAFHKGGSRGILYP KPKACWVSPMAKVPAPESPTLPPTFPSSPGLGSKRSLEEEGAHNS GKRLRAVSFPLKEADAKKCGAKPAGSGLVSCLLGPAALGPVPPPE YRGTMLHCLNFTGTPGLKGQALPFSPLVIPAFAHFLATAG PSPMAAGLMHFPPTSFDSALRHRLCPASSAWHAPVVTYAAPHF FHLNTKL
6176	1040	402	PLSALRAMAEVHVIGQITIGASGFSESSLFCKWGIHTGAAWKLLS GVREGQTQVDTPIQIGDMAYWHPIDLHFATKGLQGWPRLLHFQVW SQDSFGRCQLAGYGFCHVPSSPGTHQLACPTWRPLGWSREQLAR AFVGGGPQLLHGDTIYSGADRYRLHTAAGGTVHLEIGLLLRNFD RYGVCEC*GTLPTSPPTPTPTSDGGGWHSQEHRL
6177	1400	992	VPISLVGKVHNFPLIAFYCCCKGKQPHKSLHDCRFGALDPN CSHCYLDQIKRSDFLGFSGYSPHFVAISTNSEHKMQPSSMQQAL PSQ*PYWTDPRPALVPCCSHRPDVHRSRPGPLPGTSGCSDRPP VCPI
6178	1027	254	STQRGGIKGVARAASLVGRRRAGTGMAALLCLVCLTAALAHGCL HCHSNFSKKFSFYRHVNFKSWWVGDI PVSGALLTDWSDDTMKE LHLAIPAKITREKLDQVATAVYQMDQLYQGMYPFGYFPNELR NIFREQVHLIQNAIIESRIDCQHRGCIQYETISCNNCTDSHVA CFGYNCESSAQWKS AVQGLLNYINNWHKQDTSMRPRSSAFSWPG THRAAPAFVLVLPALRCLEPPHLANLSLEDA*CLKQH
6179	806	276	RGETREMAGNLLSGAGRRRLWDNVPLACRSFSLGVPRLLIGIRLTL PPFKVVDNRWNEKRAMFGVYDNIIGLNFEPKHPKELIRGPIWLGR WKGNELQRCIRKRMVGSRMFADDLHNLNKRIRYLYKHFNHKGK FR*KRKLTSEKAHLSPPWRRETVLFPVRKRLCIFSVIKWGFPGI
6180	156	1833	DHILKAASTHVCARGNIPAINTRCLEC*ATATPSSLEQCN* SHLSLCPLPATTSGLTPNSMIPKERNQIAERLLRVMCADLGL SVSGKEFLKLAQTLVDSGARYGAFSVTEILGNFNTLALKHLPR MYNQVKVKTALGSAACLGIGVTCHSQSVGPDSCYILTAYQAE

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			GNHIKSYVLGVKGADIRDSGDLVHHWQNVLSEFVMSEIRTVYV TDCRVSTSAFSKAGMCLRCSACALNSVVQSVLSKRTLQARSMHE VIELLNVCEDLAGSTGLAKETFGSLEETSPPPCWNSVTDSELLV HERYEQICEFYSSRAKKMNLIQSLNKHLLSNLAAIILTPVKQAVIE LSNESQPTLQLVLPITYVRLKLTAKANDAGTVSKLCHLFLEAL KENFKVHPAHKVMILDPQQKLRPVPPYQHEEIIIGKVCELINIEV KESWAEEADFEPAACKPRSAAVENPAQEDDLGKNEVYDYLOE PLFQATPDLFQYWSCVTVQKHTKLAKLAFWLLAVPAVGARSGCVN MCEQALLIKRRRLSPEDMNKLMFLKSNML
6181	169	1032	TRTLLSPVLLPGPRWKPWRRRPMPGLALPAWLQPRYRKNAYLEFI YYLIQFCGHSWIFTNMTVRFSSFGKDSMVDTPYAIGLVMRLCQS VSLLELLHIYVGIESNHLLPRFLQLTERIIILFVVITSQEEVQE KYVVCVLFVFWNLLDMVRYTYSMLSVIGISYAVLTWLSQTLWMP IYPLCVLAFAFYQS LPYFESFGTYSTKLFPDLSIYFPYVLKI YLMMLFIGMYFTYSHLYSERRDILGIFPIKKKKM*STAFQCDTR KDRLNWQCSK*NTGSILVEKFLVF
6182	1769	1224	AS*IDYQILNTLLKEFQLTEENTKLRYLTCSLYIEDMAAAYFPDCI VRPFGSSVNTFGKLGCDLDMFLDLDETRNLSAHKISCNFLMEFQ VKNVPSEIATQKILSVLCECLDHFPGCGVGVQKILNARCPVLR FSHQASGFQCDLTNNRIALTSSSELLYIYGALDSRVRAVFSVR CWARAHSLSITSSIPGAWITNFSLTMMVIFFLQRRSPPIPLTDSL KTLADAEDKCVIEGNNCTFVRDLSRIKESQNTETLELLKKEFFE YFGNFAFDKNSINIRQGREQNKPDSSPLYIQNPFFETSLNISKNV SQSOLQKFVDLARESAILQEDTDRPSSISNRPNGLVSLLLPS APNRKSPFKKSKNKFAIETVKNLLES LGNRTENFTKTSKRTI STQT
6183	1118	452	HLDRYIKSPGSGSSTPAPPSSHLLLYLHPQSTRTMGCCGCGSRGC GSGCGGCGSSCGGCGSGCGGCGSGRGGCGSGCGGCGSSCGGCGS RCYVPVCCCKPVCSWVPACSTSCGSGCGSGKGGCGSGCGSGKGC GSCGCSQSSCCKPCCSSGCGSSCCQSSCCKPCCQSSCCVPVC CQSSCCKPCCQSNCCVPVCCQCKI*GSGPRPSGFSCLVKAFLM VP
6184	1	2191	IVTVREEDGAPAVAPPGVVVS RANKRSGAGPGGSGGGGARGAEE EPPPPQLQAVLVADSFDRFFFPISKDQPRVLLPLANVALIDYTLT FLTATGVQETFFVCCWKAQIKHLLKSKNCRPTSLNVVRIITS ELYRSLGDVLRDVKALVRSDFLLVYGDVISNINITRALEEHR LRRKL*KNVSVMTMIFKESSPSHPTRCHEDNVVAVDSTTNRVL HFQKTQGLRRFAFPLSLFQSSSDGVEVRYDLLDCHISICSPQVA QLFTDNFDYQTRDDFVRGLLVNEEILGNQIHMHVTAKEYGARVS NLHMYSACADVIRRWVYPLTPEANFTDSTTQSCTHSRHNIYRG PEVSLGHGSILEENVLGGSTVIGSNCFITNSVIGPGCHIEPGD NVVLDQTYLWQGVRAAGAQIHQSLLCDNAEVKERVTLKPRSVL TSQVVVGNITLPEGSVISLHPPDAEEDDDGEFSDSDSGADQEK DKVKMKGYNPAEVGAAGKGYLWKAAGMNMEEELQQLNLWGLKI NMBESESSESEQSMDSSEPDSPRGSGSPQMDDIKVFQNEVLGTLQR GKEENISCDNLVLEINSLKYAYNISLKEVMQVLSHVLEFPLQ MDSPLDSSRYCALLLPLLKAWSPVFRNYIKRAADHLEALAAIED FFLEHEALGISMAKVLMAFYQLEILAEETILSWFSQRDITDKGQ QLRKNNQQLORFIQWLKEABEESSEDD
6185	791	44	PCTSCVLWATLHLPASTRKAPQAECCMISITWQKIGVGITGFG IFFILFGTLLYFDSVLLAFGNLLFLTGLSLIIGLRKTFWFFQ HKLKGTSLFLGGVIVLLRWPLLMFLETYGFPSLPKGFPPVAF GFLGNVCNIPFLGALFRRLQGTSSMV*KTEMSSINLDHWLKGAK REEWEPFPQSPALTHSPYTPGPPQVQKERNGAELTNSNPQVDSR GCQEAEMQTPRRLGWGWYHTLTLYLWEEK
6186	569	238	VYGIDSSNTNTHGAEERNRKLKHKHKLCHAQSRDLVNGLALKMA

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			KERKVKNKVKNKADTEEVFNNSPTNQEKMPTSAILPDFSGSVIS NIRNQMETLHSQPHQEENLCFENSFSLINLLPINA VEPTSSQQI PNRETSEANKERRKMTSKSESNIYSPITSFITADSELHDIKD LEDCLMVGLHTCGDLAPNLTIRIFTSNSEIKGVCSVGCCYHLLSE EFENQHKERTQEKWGFPMCHYLKEERWCCGRNARMSACLALERV AAGQGLPTESLFYRAVLQDIKD CYGITKCDRHVGIYKSKCSSF LDYVRRSLKKLGLDESKLPEKIIMNYEYKPRMNELEAFNMLK VVLAPCIETLILLDRLCYLKEQEDIAWSALVKLFDPVKSPRCYA VTALKKQQ*FPLKQIIRCISL*DSAGCAEEVSVGDGPPALRDAP PSGSRVGSRYD
6187	1701	771	DANGPETRLARILNPDSETEPRPGRLEPELEATRPHEPKASCPA AAPLMERKPHVLVGVTSVAALKPLLVSKLLDIPGLEVAVVTT ERAKHFYSPQDIPVTLYSDADEWEMWKSRSDFVLHIDLRRWADL LLVAPLDANTLGKVASGICDNLITCVMRAWDRSKPLLFCEPAMNT AMNEHPITAQQVDQLKAFGYVETPCVAKKLVCGDEGLGAMAEVG TIVDKVKEVLFQHSFGFQS*PGISVMGVPLYSEWVQAKSVKMDV GKIGGYPHLLNGGPALS LPRGQACSRNLNWTGPGLSFFQPGEEAA A
6188	238	1534	KGFVNAGPLMAELQVSPQWKAPEMSQICLSCGHPSA*GPRWASW NIGVFICIRCAGIHRNLGVHISRVKSVNLDQWTQEQIQCMQEMG NGKANRLYEAYLPETFRFPQIDPAVEGFIRDKYKKKYMDRSLD INAFRKEKDDKWKRGSEPVPEKKLEPVVFEKVMPQKKEDPQLP RKSSPKSTAPVMDLLGLDAPVACS IANSKTSNTLEKDLDDLASV PSPSSSGSRKVVGSMPTAGSAGSVPENLNLFPPEPGSKSEEIGKK QLSKDSILSLYGSQTPQMPQTQAMFMAPAQMAYPTAYPSFPQVTP PNSIMGSMPPPPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMG VPNGMMTTQAGYMGMAAMPQTUVYGVQPAQQLQWNLTQMTQQM AGMNFYFYGANGMMNYGQSMGSGNEBQAANQTLSPQMWK
6189	1297	793	LGEPLGDLCELI PGDVQQLQMGVEVHPGTGAQGSAAQSVAGEVQL TQLSHARQRPSCQGSQQLIALDLQHM DISRQPRWQHVPVARQVQ RAQQAQLAEGVAVHLWAGDAVVAEVELLQEVGGGKVFANACDL VVQDHEGAHAARQATGHALQRVIVQVRRVQPLEAL*RVPSGLPR RVRAFMI LHNQITGIGREDFATTYFLEELNLSYNRTSPQVHRD AFRKLRLRLSLDLSGNRLHMLPPGLPRNVHVLVKRNLALALAL GALAGMAQLRELYLT SNRLRSRALGPRAWDLAHLQLLDIAGNQ LTEIPEGLPESLEYLYLQNNKISAVPANAFDSTPNLKGIFLRFN KLA VGSVVDSAFRLKHLQVLDIBGNLEFGDISKDRGLGKEKE EEEEDEV EEEETR
6190	66	1309	ILVGNVSFLLSFAEYVCNCSVVGSLNVNRCNQTGQCECRPGYQ GLHCETCKEGFY_LNYTSGLCQPCDCSPHGALSIPCNSSGKCQCK VGVIGSICDRQDGYGFSKNGCLPCQCNRSASCDALTGACLN CQENSKGNHCEECKEGFYQSPDATKECLRCPCSAVTSTGSCSIK SSELEPECDQCKDGYIGPNCNKCEGYNFDSICRKCQCHGVY PVKTPKICKPESGECINLHNTTGFWCENCL*GYVHDLBGNCTK KVILPTPEGSTILVSNASLTTSVPTVINSTFTPTTLQTI FSVS TSENSTALADVSWTQFNIIILTVIIIVVLLMGFVGVAVMYRE YONRKLNAPFWTIELKEDNISFSSYHDSIPNADVSGLLEDDGNE VAPNGQLTLTPIHNYKA
6191	1212	1511	VNLCGGLLHLSTHHLGKPSMH*LFFMLSFPHLTPQQPKCPS MIDWIKKIWIYIYMEYYATIKRNEIMFFAGTWMEEAII LSKLM QDYMPSLISGS
6192	3	950	TRGCGNKMAGKKNVLSLAVYAEDSEFESDGEAGIEAVGSAEE KGGLVSDAYGEDDFSR LGDEDDGYEEBEDENSRSQSEDDSETK PEADDPKDNTAEAKRDPQELVASFSERVRNMSPEDEIKIPPEPPG RCSNHLQDKIQKLYERKIEGMDMNYI IQRKKEFRNPSIYEKLI QFCAIDELGTNYPKDMFDPHGWSSEDSYBALAKAQKIEMDKLEK

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			AKKERTKIEFVTGTGKGGTTNATSTTTTASTAVADAQKRKSKW DSAIPVTITIAOPTILTTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAQ
6193	3	950	TRGCGNKMAGKKNVLSLAVYAEDSEPESDGEAGIEAVGSAEE KGGLVSDAYGEDDFSRLLGDEDEGYEEEDENSROSEDDDDSETEK PEADDPKDNTEAEKRDQPQLVASFSERVRNMSPEIKIPPEPPG RCSNHLQDKIQKLYERKIEGMDMNYIIQRKKEFRNPSIYEKLI QFCAIDELGTNYPKDMFDPHGWSSEDSYEEALAKAQKIEMDKLEK AKKERTKIEFVTGTGKGGTTNATSTTTTASTAVADAQKRKSKW DSAIPVTITIAOPTILTTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAQ
6194	3	950	TRGCGNKMAGKKNVLSLAVYAEDSEPESDGEAGIEAVGSAEE KGGLVSDAYGEDDFSRLLGDEDEGYEEEDENSROSEDDDDSETEK PEADDPKDNTEAEKRDQPQLVASFSERVRNMSPEIKIPPEPPG RCSNHLQDKIQKLYERKIEGMDMNYIIQRKKEFRNPSIYEKLI QFCAIDELGTNYPKDMFDPHGWSSEDSYEEALAKAQKIEMDKLEK AKKERTKIEFVTGTGKGGTTNATSTTTTASTAVADAQKRKSKW DSAIPVTITIAOPTILTTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAQ
6195	736	235	VANGLQSNMFKFYCDYCDTYLTHDSPSVRKHCSGRKHKENVKD YYQKWMEEQAQSLIDKTTAAFOQGGKIPPTFFSAPPPAGAMIPPP PSLPGPPRFGMMPAPHMGGPPMMPMMPGPPPGMMPVGPAPGMRP PMGGHMPMPGPPMMPARPMMPVTRPMTTRPDR
6196	1512	623	KTGKRRAAYVRNILDNAEQVISNLEARNLGPRLTPLLQEDSH QRLLMGLMVSELKDHFLRHQLQGVKKEKIEQMVLDYISKLLDLIC HIVETNWRKKNLHSLWLFHNSRGSAAEFAVFHIMTRILEATNSL FLPLPPGFHTLHTILGVQCLPLHLLHCIDSGVLLLTETAVIRL MKDLDNTEKNEKLKFSIIIVRLPLIGQKICRLWDHPMSSNIISR NHVTRLLQNYKKQPRNSMINKSSFSVEFLPLNYFIEILDIESS NQALYPFEGHDNVDAEFVEEAALKHTAMLLGL
6197	3	819	ADPEGTEAVMSRYTRPPNTSLFIRNVADATRPEDLRREFGRY PIVDVYIPLDFYTRRRPRGFAYVQFEDVRDAEDALYNLRKWKVC QLEIQFAQGDRTKTPGQMSKERHPCSPSDHRRSRSPSQRRTRS RSSSWGRRNRSSDSLKESRRRFSYSQSKSRKSLPRRSTGARQ SRTFRRNFGRGRSRKSLQKRSKSIKSKSSSQKQTSSGTKS RSHGRHSDSIARSPCKSPKGYTNFETKVQTAKHSHFRSHRSRS YRHKNSW
6198	111	1912	SEAALESFISFISFACFLRLKPALEDGTLPHPDITLGMNYEGARSE RENHAADDSEGCALDMCCSERLPGLPQPIVMEALDEAGLQDSQ REMPPPPPPSPSDPAQKPPPRGAGSHSLTVRSSLCFLFAASQFL LACGVLWFGYGHVWSQATNLVSSLLTLKQLEPTAWLDSGTW GVPSLLLVFLSGGLVLVITLVWHLRLTPPEPTPLPEPDRRQSV SRQPSFTYSEWMEEKIEDDFLDLPVETPVFDCVMDIKPEADP TSLTVKSMGLQERRGSNVSLTDMCTPGCNEEGGYLMSPREES AREYLLSASRVLQAEELHEKALDPFLQAEFFEIPMNFVDPKEY DIPGLVRKNRYKTIPLNPHSRVCLTSPDDPDLSSYINANYIRG YGGEERVYIATQGPVISTVADFWRMVWQEHPTPIVMITNIEEMN EKCTEYWPPEQVAYDGVETVQKVIHTEYRLRLISLKSGETER GLKHYWFTSWPDQKTPDRAPLLHLVREVEEAAQGEHPHCAPII VHCSAGIGRTGCFIATSI CCQQLRQEGVVDILKTTCCQLRQDRGG MIQHCEQYQFVHHVMSLYEKQLSHQSFE
6199	144	1211	NARENGESSSSWKKQAEIDKIFEFKETLGTGAFSEVVLAEBKA TGKLFVAKCI PKKALKGKESSIE NEIAVLRKIKHENI VALEDIY ESPNHLYLVMLVSGGELFDRIVEKGFYTEKDASTLIRQVLDAV YYLHRMGI VHRDLKPENLLYSQDEESKIMISDFGLSKMEGKGD VMSTACGTPGYVAPEVLAQKPYSKAVDCWSIGVIAYILLCGYPP

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			FYDENDSKLFEQILKAEYEFDSFYWDDISDSAKDFIRNLMKEDP NKRYYCEQAARHPWIAGDTALNKNIHESVSAQIRKNFAKSKWRQ AFNATAVVRHMRKLHLGSSLDSSNASVSSSLASQKDCASGTF HAL*
6200	702	96	LPEVPHSLRPRVKPHLCCAQPAVRVMARLPKLA VFDLDYTLWPF WVDTHVDPFPHKSSDGTVRDRRGQDVRLYPEVPEVLKRLQSLGV PGAAASRTSEIEGANQLLELFDLFRYFVHREIYPGSKITHFERL QOKTGIPFSQMIFFDDERNIVDVSKLGVTCIHQNGMNLQTL QGLETFKAQQTGPLRSSLEESPFEEA
6201	2809	2383	GQTPRVRWKMRSLRAGKRRQTAGRKSKSPPKVPVIVQDDSLPA GPPQIRILKRPTSNVGVSSPNSTSRPTLPVKSLAQREAEYASA RKRILGSASPREEQEKPIILDRPTRISQPEDSRQPNVIRQPLGP DGSQGFQRR
6202	2	426	INADRAAVASSLLSRPTRKMAPQKDRPKRSTWRFNLDLTHPVE DGI FDSGNFEQFLREKVKVNGKTGNLGNVHI FRFNKKTIVVSE KQFSKRYLKYLTKKYLKKNLRLDWLRVVASDKETELRYFQISQ DEDESESED
6203	419	2550	RCPRPPATAGAAASRPDRSPPSGISGSEAAAGAGAAAPASQHFA TGTGAVQTEAMKQILGVIDKKLRNLEKKKGKLDYQERMNKGFR LNQDQLDAVSKYQEVNTNNLEFAKELQSFMAISQDIQKTIKKA RREQLMREAEQKRLKT VLELQYVLDKLGDDDEVRTDLKQGLNGV FILSEELSLDDEFYKLVDPERDMSLRNLNQYEHASIHLDLLE GKEKPVCGTTYKVLKEIVERVFQSNFYDSTHNNQNGLCSEEEAA SAPAVEDQVPEAEPEAEYEQSEVESTEYVNRQFMAETQFTS GEKEQVDEWTVETVEVNSLQQPQAASPSVPEPHSLTPVAQAD PLVRRQVRQDLMAQMQGPYNFIQDSMLDFENQTLDPVISAQPM NPTQNMMPQLVCPVHSESRLAQPNQVPVQPEATQVPLVSSTS EGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTASS LPAASQPVFQAGTSKPLHSSGINVNAAPFQSMQTVFNMNAPVP PVNEPETLQKQYQASYNQSFSSQPHQVEQTELQEQELQTVVG TYHGSFDQSHQVTGNHQQPPQNTGFPNRPYNSRGVSRGGS RGARGLMNGYRGFPANGFRGGYDGYRPSFSNTPNSGYTQSQFAP RDYSGYQRDGYQQNFKRGSGQSGPRGAPRGRGGPPRPNRGMQM NTQQVN
6204	2933	787	CTHNLISLLGGRALIHFNRLNLKIQEGBAHNIFCPAYDCFLV PGDI IKS VVSKEMDKRYLQFDIKAFVENNPAIKWCPTPGCDRAV RLTKQGSNTSGSDTLSPFLLRAPAVDCGKGLFCWECLGEAHEP CDCQTWKNWLQKITEMKPEELVGUSEAYEDAANCLWLLTNSKPC ANCKSPIQKNEGCNMQCAKCKYDFCWI CLEWKKHSFVHWEVI YRCTRYEVIQHVBEQSKEMTVEAEKKHKRFQELDRFMHYIYTRFK NHEHSYQLEQRLKTAKEKMEQLSRALKETEGGCCPDFTTFIEDAV HVLLKTRIRILKCSYPYGFLEPKSTKKEIFELMQTDLEMVTEDL AQKVNRPYLRTPRHKI IKAACLQVQKQREFLASVARGVAPADSP EAPRRSFAGGTWDWEYLGFAPEEYAEFOYRRHRQRRRGDVHS LLSNPPDPDEPSESTLDIPEGGSSRRPGTSVVSSASMSVLHSS SLRDYTPASRSENQDSLQALSSLOEDDPNILLAIQLSLQESGLA LDEETRDFLSNEASLGAICTSLPSRLDSVPRNTDSPRAALSSE LLELGDLSMLGAENDPFSTDTLSSHPLSEARSDFCPSSSDPDS AGQDPNINDNLLGNIMAWFHDMPQSIALIPATTEISADSQLP CIKDGSEGVKDELVLVPEDSMFEDASVSEGRGTQIEENPLEENT PGGGKQHPQAW
6205	1	1200	RAHRGKMALEVGMEDGQLSDSDSDMTVAPS DRPLQLPKVLGGD SAMRAFQNTATACAPVSHYRAVESVDSSEESFSDSDSDCLWKR KRQCKFNPPKPBPFQFGSSQKPPVAGGKINNIIWGA VLQEQN QDAVATELGILMEGTIDRSRQSETYNYLLAKKLKESQEHKTD LDKELDEYMHGGKKMGSKEENGQGHLLKRRPVKDRLGNRPEMN

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			YKGRYEITAEDESQEKVADEISFRLQEPKDLIARVVRTIGNKKAI3LLMETAEVEQNGGLPIMNGSRRTTPGGVFLNLLKNTSPSISEQIKIDIFYIENQKEYENKKAARKRRTQVLGKMKQAIKSLNFQEDDDTSRETASDTNEALASLDESQEGHAEAKLEAEAEIEVDHSHDLDF
6206	10	1442	IIISERRERSCLHLVLCIRCSDDVEMGSSVLGLCSMASWIPCLCGSAPCLLCRCPCSGNNSTVTRLIYALFLLVGVCVACVMLIPGMEEQLNKIPGFCENEGVVPNCNVLGVYKAVYRLCFGLAMFYLLSLLMIKVSSSDPRAAVHNGFWFFKFAAAIAIIIGAFFIPEGFTFTTVWFYVGMAGAFCFILIQVLVLLIDFAHSWNESWVEKMEEGNSRCWYALLSATALNYLLSLVAIVLFFVYIYTHPASCSNKAFISVNMLLCVGASVMSILPKIQESQPRSGLLQSSVITVYTMVLTWSAMTNEPETNCNPSLLSIIGYNTTSTVPKEGQSVQWHAQGIIGLILFLLCVFYSSIRTSNNQVKNLTLSDESTLIEDGGARSDDGSLEDGDDVHRAVDNERDGVTSYSFHFHMLFLASLYIMMTLTNWRYEPEPSREMKSQWTAIVVVKISSWIGIVLYVWTLVAPLVLTNRDFF
6207	2924	1471	TVMAEAAATPGTTATTSGAGAAAATAAAASPTPIPTVTAPSLGAGGGGGSDGSGGGWTKQVTCRYFMHGVCKEGDNCRYSHDLSDSPYSVVCKYFQRCYCIYGDRCRYEHSKPLKQEEATATELTTKSSLAASSLSSTIVGPLVEMNTGEAESRNSNFATVAGSSEDWVNAIEFVPGQPYCGRTAPSCTEAPLQGSVTKEESEKEQTAVETKKQLCPYAAVGECRYGENCVYLHGSDCDMCGQLVLPMDAAQORSQHIKSCIEAHEKDMELSAVQSRKDMVCGICMEVVYEKANPSERRFGILSNCHTYCLKCIRKWRSAKQFESKIKSCPECRITSNFVIPSEYWVEEKEEKQKLILKYKEAMSNKACRYFDEGRGSCFFGGNCFYKHAYPDGRREBPQRQKVGTSRRYRAQRNRHFWELIEERENSFPDNDDEEVVTFELGEMLLMLLAAGGDELTDSEDEWDLFHDELEDYDLDL
6208	2924	1471	TVMAEAAATPGTTATTSGAGAAAATAAAASPTPIPTVTAPSLGAGGGGGSDGSGGGWTKQVTCRYFMHGVCKEGDNCRYSHDLSDSPYSVVCKYFQRCYCIYGDRCRYEHSKPLKQEEATATELTTKSSLAASSLSSTIVGPLVEMNTGEAESRNSNFATVAGSSEDWVNAIEFVPGQPYCGRTAPSCTEAPLQGSVTKEESEKEQTAVETKKQLCPYAAVGECRYGENCVYLHGSDCDMCGQLVLPMDAAQORSQHIKSCIEAHEKDMELSAVQSRKDMVCGICMEVVYEKANPSERRFGILSNCHTYCLKCIRKWRSAKQFESKIKSCPECRITSNFVIPSEYWVEEKEEKQKLILKYKEAMSNKACRYFDEGRGSCFFGGNCFYKHAYPDGRREBPQRQKVGTSRRYRAQRNRHFWELIEERENSFPDNDDEEVVTFELGEMLLMLLAAGGDELTDSEDEWDLFHDELEDYDLDL
6209	1758	829	ERLCFPCMQSKIYSYSPNKC SGMRFP LQERN SVTHHEVCKQ GKPLAGIYRKREKRKNAGNAVRSA MKSEBQKIKDARKGPLVFFPNQKSEAEPKTPPSSCDSTNAIAIAKQALKKPIKQKQAPRKAQ GK TQQRKLTDFYPVRRSRKSKAELQSEERKRIDELIESGKEEGMKIDLIDGKGRGVIATKQFSRGDFVVEYHGDLEITDAKREALY A QDPSTGCYMYFYQYLSKTYCVDATRETNRLGRLINHSKCGNCQ TKLHDIDGVPHLILIASRDIAAGEELLYDYGDRSKASIEAHPWLKH
6210	3761	387	IFGMSKLRMVLLLEDSGSADFRRHFNLSPTITVVLILLSACFVTSLLGGTDKELRLVDGENKCSGRVEVKVQEEWGTVCNNGWSMRAVSVICNQLGCPTAIKAPGWANSSAGSGRIWMDHVS CRGNESALWDCKHDGWSGKHSNCTHQDAGVTCSDGSNLEMLTRGGNMC SGRIEIKFQGRWGTVCDDNFNIDHASVICROLECGSAVSFSGSSNFGE GSGPIWFDLINCNGNESALWNCKHQGWGKHNCDAEDAGVICSKGADLSLRLLVDGVTECSGRLEVRFGQEWGTICDDGWDSDYDAVACKQLGCPTAVTAIGRVNASKGFGHIWLD SVSCQGH E PAVWQCKHHEWGHYCNHNEDAGVTCSDGSDLELRLRGGSRCAGTVEVEIQRL LGKVC DRGWGLKEADVVCRLGCGSALKTSYQVYSKI QATNTWL

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			<p>FLSSCNGNETSLWDCKNWQWGGLTCDHYEAKITCSAHREPRIV GGDIPCSGRVEVKHGD TWGSI CDSDFSLEAASVLCRELQCGTVV SILGGAHFGEGNGQIWAEEFQCEGHESHLSLCPVAPRPEGTCSH SRDVGVVCSRYTEIRLVNGKTPCEGRVELKTLGAWGSLCNSHWD IEDAHVLCQQLKCGVALSTPGGARFGKNGQIWRHMFHCTGTEQ HMGDCPVTALGASLCPSEQVASVICSGNQSQTLSSCNSSSLGPT RPTIPEESAVACIESGQLRLVNGGRCAGRVEIYHEGSGWTICD DSWDLSDAHVVCRLQCGEAINATGSAHFGEGTGPIWLDKMCN GKESRIWQCHSHGWGQONCRHKEDAGVICSEFMSLRLTSEASRE ACAGRLEVFYNGAWGTVGKSSMSETTVGVVCRQLGCADKXKINP ASLDKAMSI PMWVDNVQCPKGPDTLWQCPSSPWEKRLASPSEET WITCDNKIRLQEGPTSCSGRVEIWHGGSWGTVCDDSWDLDDAQV VCQQLGCGPALKAFKEAEFGQGTGPIWLNVEVKCKGNESSLWDCP ARRWGHSECGHKEDAAVNCTDISVQKTPQKATTGRSSRSQSFIA VGILGVLLAIFVALFFLTCKRRQRQLAVSSRGENLVHQIQYR EMNSCLNADDLDLMNSSGGHSEPH</p>
6211	3761	387	<p>IFGMSKLRMVLLLEDSSGSAFRRHFVNLSPTTITVULLLSACFVT SSLGGTDKELRLVDGENKCSGRVEVKVQEEWGTVCNNGWSMEAV SVICNQLGCPATAKAPGWANSSAGSGRIWMDIIVSCRGNESALWD CKHDGWSKHSNCTHQDAGVTCSDGSNLEMLTRGGNMCSGRIB IKFQGRWGTVCDDNFNIDHASVICRQLECGSAVSFSGSSNFGEG SOPWFDDLI CNGNESALWNCKHQGWGKHNCDAEDAGVICSKG ADLSRLVDGVTECSGRLEVRFGGEWGTICDDGWDSYDAAVACK QLGCPATAVTAIGRVNASKGFHGIWLDVSVSCQGHFAVWQCKHHE WGKHYCNHNEAGVTCSDGSLELRLRGGGSRCACTVEVEIQRL LGKVCDRGWGLKEADVVCRLQCGSALKTSYQVYSKIQTATNWL FLSSCNGNETSLWDCKNWQWGGLTCDHYEAKITCSAHREPRIV GGDIPCSGRVEVKHGD TWGSI CDSDFSLEAASVLCRELQCGTVV SILGGAHFGEGNGQIWAEEFQCEGHESHLSLCPVAPRPEGTCSH SRDVGVVCSRYTEIRLVNGKTPCEGRVELKTLGAWGSLCNSHWD IEDAHVLCQQLKCGVALSTPGGARFGKNGQIWRHMFHCTGTEQ HMGDCPVTALGASLCPSEQVASVICSGNQSQTLSSCNSSSLGPT RPTIPEESAVACIESGQLRLVNGGRCAGRVEIYHEGSGWTICD DSWDLSDAHVVCRLQCGEAINATGSAHFGEGTGPIWLDKMCN GKESRIWQCHSHGWGQONCRHKEDAGVICSEFMSLRLTSEASRE ACAGRLEVFYNGAWGTVGKSSMSETTVGVVCRQLGCADKXKINP ASLDKAMSI PMWVDNVQCPKGPDTLWQCPSSPWEKRLASPSEET WITCDNKIRLQEGPTSCSGRVEIWHGGSWGTVCDDSWDLDDAQV VCQQLGCGPALKAFKEAEFGQGTGPIWLNVEVKCKGNESSLWDCP ARRWGHSECGHKEDAAVNCTDISVQKTPQKATTGRSSRSQSFIA VGILGVLLAIFVALFFLTCKRRQRQLAVSSRGENLVHQIQYR EMNSCLNADDLDLMNSSGGHSEPH</p>
6212	1	1134	<p>LKWE LRPGGAVWGTGRGAGTGAPRSCCCQTNPGFPSSLRRFRFR RELPPFACHEIGLGAEGSGPPPAPAAERSRAMEEEASSPGL GCSKPHLEKLTIGITRILESSPGVTEVTII EKPPAERHMISSE QKNNCVMPEVDKNFYLMINGFHTWSVKLDEHII PLGSMAINS I SKLTQLTQSSMYSLPNAPTADLEDDTHEASDDQPEKPHFDSRS VIFELDSCNGSGKVLVYKSGKPALEDTEIWFDRALYWHFLT DTFTAYYRLI THLGLPQWQYAFTSYGISPQAKQRVSMYKPI TY NTNLLTEETDSFVNKLDP SKVFKSKNKI VIPKKKGPVQAGGQK GPSGSGPSTSSTSKSSSGSGNPTRK</p>
6213	1	1134	<p>LKWE LRPGGAVWGTGRGAGTGAPRSCCCQTNPGFPSSLRRFRFR RELPPFACHEIGLGAEGSGPPPAPAAERSRAMEEEASSPGL GCSKPHLEKLTIGITRILESSPGVTEVTII EKPPAERHMISSE QKNNCVMPEVDKNFYLMINGFHTWSVKLDEHII PLGSMAINS I SKLTQLTQSSMYSLPNAPTADLEDDTHEASDDQPEKPHFDSRS</p>

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			VIFELDSCNGSGKVCVLVYKSGKPALASDTBIWFLDRALYWHFLT DTFTAYYRLILTHLGLPQWQYAFSTSYGISPOAKQRVSMYKPIY NTNLLTEETDSFVNKLDPSKVFKSKNKIVIPKKKGPVQAGGQK GPSGPGSPSTSSSTKSSSGSGNPTRK
6214	2	460	HELAPSAIRRAARLGLGPARWQSRRAAFYFVRGFRGTGWSFVGWV VLGTSARTRTLFFFLSKMAASSRAQVLALYRAMLRERKRSAYN YRTYAVRRIRDAFRENKVKDPVEIQTLVNKAARDLGVIRRQVH IGQLYSTDKLIIENRDMPT
6215	2	1849	FVAGGPRGSGSAETMPEIRVTPLGAGQDVGRSCILVSIAGKNV MLDCGMHMGFNDRFPDFSYITQNGRIITDFLDCVIIISHFLDH CGALPYFSEMVGVDGPIYMTHTPTQAI CPILEDRKIAVDKKG ANFFTSQMIKDCMKVAVHLHQTQVQVDELEIKAYYAGHVLGA AMFQIKVGSSESVYTGDNMTDPDRHLGAAWIDKCRPNLLITEST YATTIRDSKRCRERDFLKKVHETVERGGKVLIPVFAFGRAQELC ILLETFWERNMLKVPYIFSTGLTEKANHYKLFIPWTNQKIRKT FVQRNMFPEFKHIKAFDRAFDNPGPMVVFATPGMLHAGQSLQTF RKWAGNEKNMVMIPGYCVQGTVGHKILSGQRKLEMEGRQVLEVK MQVEYMSFAHADAKGIMQLVVGQAPESVLLVHGEAKKMEFLKQ KIEQLRVNICYM?ANGETVTLPTSPIPVGISLGLLKREMAQQL LPEAKKPRLLHGTILMKDSNFRVLSSEQALKELGLAEHQLRFTC RVHLHDTREKETALRVYSHLKSVLKDHCVQHLPDGGSVTVESVL LQALAPSEDPGTKVLLVSWTYODEELGSFLTSLKKGLPQAPS
6216	11	393	QTRPEPRNSALRQSRKMAVVGVSVSRLGRSRPQLGRPMSS GANGEGSARMWKTTLTFVVALPGVAVSMLNVYLKSHGHEHERPE FIAYPHLRIRTKPFPWGDGNHTLFHNPVHNPLPTGYEDE
6217	9	1178	TRVGRGESGLKMEVKPPPPGRFPQDPSGRRRRRRGEHDPKEPEQ LRKLFIGGLSFETDDSLREHFKEKWTLDTCVVMRDPQTKRSRG FGFVTYSCVEEVDAAACARPHKVDGRVVEPKRAVSREDSVKPGA HLTVKKIFVGGIKEDTEENLRDYFEKYGKIETIEVMEDRQSGK KRGFAPVTFDDHDTVDKI VVQKYHTINGHNCVKKALKSQEMQS AGSQRGSGGSGNFMGRGNGFSGGGGNGFGRGNGFGRGGYGGGG GSSRGSYGGGDDGYNFGDGGNYGGGPGYSSRGYGGGGPGYG NQGGGYGGGGYDGYNEGGNFGGGNYGGGNYNDFGNYSGQQQS NYGPMKGGSGFGRSSGSPYGGGYGGGGGGGGYGSRRF
6218	1305	906	SCERRGFIMADDLKRFLYKCLPSVEGLHAI VVSDRDGVFVIVKA NDNAPEHALRPGFLSTFALATDQGSKLGLSKNKSII CYNTYQV VQFNRLPLVVSFIASSANTGLIVSLEKELAPLFEELRQVVEVS
6219	2	890	AGFPEGAGAGTRCAGAEEMASAGGEDCESPAPEADRPHQRPFPL IGVSGGTASGKSTVCEKIMELLGQNEVEQQRKVVLSQDRFYK VLTABQKAKALKGQYNFDHPDAFDNDLMHRTLKNIVEGKTVEVP TYDFVTHSRLEPETT VVYPADVVLFEGLVLFYSQBIRD MFHLRLF VDTSDVRLSRRVLRDVRGRDLEQILTQYTT FVKPAFEEPCLP TKKYADV IIPRGVDNMVA INLIVQHIDILNGDICKWHRGGSGNG RSYKRTFSEPGDHPGMLTSGKRSHLESSSRPH
6220	227	764	EQNISLEMSCTIEKALADAKALVERLRDHDAAESLIEQTALN KRVEAMKQYQEEIQELNEVARHRPRSTLVMGIQENRQIRELQQ ENKELRTSLEEHQSALELIMSKYREQMFRLLMASKKDDPGIIMK LKEQHSKIDMVHRNKSEGFFLDASRHILEAPQHGLERRHLEANQ NVH
6221	98	916	RWINDLNPVSDGLELRPKYNGILHCLTTIWKLDGLRGLYQGVTP NIWAGLSWGLYFVFNAYKSYKTEGRAERLEATEYLVSAABAG AMTLCITNPLVTKTRLMLQYDAVNNSPHRQYKGMFDTLVKIYK YEGVRGLYKGFVGLFGTSHGALQFMAYELLKLKYNQHINRLPE AQLSTVEYISVAALSKI FAVAATYPYQVVRARLQDQHMFSYSGVI DVITKTWRKEGVGGFYKGIAPNLIRVTPACCTTFVYVENVSHFL LDLREKRK

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6222	2	2116	MARELRALLLWGRRLRPLLRAPALAAVPGGKPIILCPRTTAOLG PRRNPASLSQAGRLFTQTAEDEKKEPLHSIISSSTESVQGSSTSKH EFOAETKILLDIVARSLEYSEKEVFIRELISNASDALEKLRHKL SDGQALPEMEIHLQTNAEKGTITITQDTGIGMTQEEELVSNLGTIA RSGSKAFDLALQNAEASSKIIGQFGVGFYSAFMVADRVEVYSR SAAPGSLGYQLWSDGSGVFEIAEASGVRTGTKIIHLKSDCKEF SSEARVRDVVTKYSNFSFPLYLNGRRMNTLQAIWMMDPKDVRE WQHEEFYRYVAQAHDKPRYTLHYKTDAPLNIRSIFYVPMKPSM FDVSRELGSVALYSRKVLIQTATDILPKWLRFIGVVDSEDI PLNLSRELLQESALIRKLRDVLQRLIKFFIDQSKKDAEKYAKF FEDYGLFMREGIVTATEQEVKEDIALLRYESSALPSGQLTSL EYASMRPAGTRNIYYLCAPNRHLAEHSPPYEAMKKDTEVLFCF EQFDELTLHLREDFDKKLISVETDIVVDHYKEEFEDRSPAAE CLSEKETEELMAWMNRNLGSRVTNVKVTLRDLTHPAMVTVLENG AARHFLRMQQLAKTQEERAQLLOPTLEINPRHALIKKLNQLRAS EPGLAQLLVQIYENAMIAAGLVDDPRAMVGRNLNELLVKALERH
6223	3	715	DAWARTMAGMVDFODEEQVKS FLENMEVECNHYCHEKDDGCV RLVDYLEGIRKNFDEAAKVLKFNCEENQHSDCYKLGAYYVTGK GGLTQDLKAAARCFPMACEKPGKKSIAACHNVGLLAHQGVNED GQPDLGKARDYYTRACDGGYTSSCFNLSAMFLQAGPFPKMDL ACKYSMKACDLGHIWACANASRMVYKLGVDVKVEAKAEVLKNRA QQVHKEQQKGVQPLTFG
6224	1	133	LRTISSMAWGPLLTLTLLAHCTGSGWAQSVLTQPPSVSGARIPHEK
6225	3259	938	LLSCRLAICLKFVSERKTVMGPGGARRQAFIAGDVTVDFT QKEWRLLSPAQRALYREVTLENYSHLVSLGILHSHKPELIRLEQ GEVPWGEERRRRRPGPCAGIYAEHVLPRKNIHLAQRQQQLQFSD QSFQSDTAEGQEKESKTPMAFSSPPLRHAVSSRRRNSVVEIES SQGQRENPTIDKVLKGIENSRRWAFKCAERQDFSRKMMV I I H KKAHSRQKLFTCRECHQGFREDESALLHONHTTGEKSYVCSVCG RGFSLKANLLRHQRTSHGEKPFCLKVCGRGYTSKSYLTVHERTH TGEKPYECQECGRFRNDKSSYNKHLKAHSGEKPFVCKECCGRGYT NKSIFYVVKRIHSGEKPYPQCECGRGFSNKSHLITHQRTSHGEK PFACRQCKQSFSVKGSLLRHQRTSHGEKPFVCKDCERSFSQKST LVYHQRTHSGEKPFVCRECGGFIQKSTLVKHQITHESEKPFVC KDCGRGFIQKSTFTLHQRTSHSEKPYGCRECGRRFRDKSSYNKH LRAHLGEKRFRCRDCGRGFTLKPNLTIHQRTSHGEKPFMCKQCE KSFSLKANLLRHQWTHSGERPFNCKDCGRGFIKSTLLFHQKTH SGEKPFICSECGQGF IWKSNLVKHQLAHSGKQPFVCKECCGRGFN WKNLTLHQRTSHGEKPFVKNVCGQGF SWKRSLTRHHWR IHSKE KPFVQCCEKRGYTSKSDLTVHERIHTGERPYECQECGRKFSNKS YYSKHLKRHLREKRFCTGSGVGEASS
6226	29	266	TRVSELLGGSQRLFFLPWRRRLCRCGLGPRVSPMAGPRVEVDGS IMEGGQSLRVSTGLSWLLSLPWRAQRIAGRSYA
6227	2581	890	MSASSLLEQRPKGQGNKVQNGSVHQKDGNDDEFFEPYLSPOARP NNAYTAMSDSYLPSYYSPIGFSYSLGEAAWSTGGDTAMPYLT YCQLSNGEPEFLPDAMFGQPGALGSTPFLGQHGFNFPSGIDFS AWGNSSQGGSTQSSGYSNYAYAPSSLGAMIDGQSAFANETL NKAPGMNTIDQMAALKLGSTEVASNVPKVVGSAVSGSITSNI VASNSLPPATIAPPKPAWADIASKPAKQPKLTKNGIAGSSSL PPPIKHNMIDGTWDNKGPVAKAPQALVQNIQPTQSSPQPVG QQANNSPPVAQASVGGQTQPLPPPPPPQAQLSVQQQAQPTRWV APRNRGSGFGHNGVDGNGVQSQAGSGSTPSEPHVLEKLSIN NYPNPKDFDWNLLKHGRVFIKSYSEDDIHSIKYNIWCSTBHGK RLDAAYRSMNGKGPVYLLFSVNGSGHFCGVAEMKSAVDYNTCAG VWSQDKWKGRFDVRWIFVKDVPNSQLRHIRENNENKPVNTSRD TQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRO

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6228	47	1978	GRCRRRGAVMELAQEARELGCAVEEMGVFVAARAPESTLRRL CLGQGADIWAYILQHVHSORTVKKIRGNLLWYGHQDSPQVRRKL ELEAAVTRLRAEIQELDQSLERMDTEAQDTAMEQARQHTQDT QRRALLLRAQAGAMRRQQTTLRDPQRLQNLRLQDMERKAKV DVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLPLPQAKRG SLPTPHDDHFGTSYQQWLSSVETLLTNHPPGHVLALEHLAEER EABIRSLCSGDGLGDTFISRPQAPDQSDSSQTLPSMVHLIQEGW RTVGVLVSQRSTLLKERQVLTQRLQGLVEEVERVGLSSERQVL ILGLRRCCLTWTELKALHDQSQELQDAAGHRQLLLRELQAKQORI LHWROLVEETQEQVRLIKGNSASKTRLCRSPGEVLALVQRKVV PTFEAVAPQSRELLRCLLEEEVRHLPHILLGTLRHRPGELKPLP TVLPSIHQLHPASPRGSSFIASHKLGLPKASELLPAAASL RQDLLLLQDQSLWCWDLHMKTSLLPGLPTQELLQIQASQEKQ QKENLGQALKRLEKLLKQALERIPELQGIQVGDWWEQPGQAALSE ELCQGLSLPQWRRLRWVQAQALQKLCS
6229	1571	560	GPSLLGTRGTPNPARTLQIFFLLIGRRITGRMAVDDLQFEEFG NAATSLTANPDATTNIEDPGETPKHQPGSPRGSGREDEDELLG NDDSKTELLAGQKKSSPFWTFEYYQTFDVTYQVFDRIKGS LPIPGKNFVRLYIRSNPDLYGPFWICATLVPAIAISGNLSNFLI HLGEKTYHYVPEFRKVSIAATIIYAYAWLVPLALWGFLMWRNSK VMNIVSYSFLEIVCVYGYSLFIYIPTAILWIIIPKAVRWILVMI ALGISGSLAMTFWPAVREDNRVALATIVTIVLHMLLSVGC LAYFFDAPEMDHLPTTTATPNQTVAAAKSS
6230	1723	600	SKMSGRSGKKKMSKLSRSARAGVIFPVGRMLRYLKKGTFKYRIS VGAPVYMAAVIEVLAELAEILELAGNAARDNKKARIAPRHILLAVA NDEELNQLLKGVTIASGGVLPRIHPELLAKRGTKGKSETILSP PPEKRGRKATSGKGGKSKAAKPRTSKSKPKDSDKEGTSNST SEDGPGDGFTILSSKSLVLGQKLSLTQSDISHIGSMRVEGIVHP TTAEIDLKEDIGKALEKAGGKEFLETVKELRKSQGPLEVAEAAV SQSSGLAAKFVICHIPQWGSCKCEQLEETIKNCLSAEDKKL KSAFFPPFPSPGRNCFPKQTAQVTLKAISAHFDDSSASSLKNNVY FLLFDESIGIYVQEMAKLDAK
6231	149	870	LIFSSTMDRSLRNVLVVSFGFLLFTAYGGLQSLQSSLYSEEG LGVTALSTLYGGMLLSSMFLPPLLIERLGCKGTIILSMCGYVAF SVGNFFASWYTLIPTSLILGLGAAPLWSAQCTYLTITGNTHAEK AGKRKQDMVNQYFGIFLIFQSSGVWGNLISSLVFGQTPSQETL PEBQLTSCGASDCLMATTTTNSSTORPSQQLVYTLGITYGSGVL AVLMIAAFLQPIRDVQRESE
6232	3679	1476	FVAGTTMAGFWVGTAPLVAAGRRGRWPPQQLMLSAALRTLKHVL YYSRQCLMVSRNLGSGVYDPNEKTFDKILVANRGEIACRVIRTC KKMGIKTVAIHSDDVASSVHVMADEAVCVGPAPTSKSYLNMDA IMEAIKKTRAQAVHPGYGFLSENKEFARCLAAEDVVFIGPDTHA IQAMGDKIESKLLAKKAEVNTIPGFDGVVKDAEEAVRIAREIGY PVMIKASAGGGGKGMRIAWDDEETRDGFRLLSSQEAASSFGDDRL LIEKFIDNPRHIEIQVLGDKHGNALWLNRECSIQRRNQKVVEE APSIFLDAETRRAMGEQAVALARAVKYSSAGTVEFLVDSKKNFY FLEMNTRLQVHPVTECITGLDLVQEMIRVAKGYPLRHKQADIR INGWAVECRVYAEOPYKSPGLPSIGRLSQYQEPHLPLGVRVDSG IQPGSDISIYYDPMISKLITYGSDRTEALKRMADALDNYVIRGV THNIALLLREVIINSRFVKGDI STKFLSDVYPDGFKGHMLTKSEK NQLLAIASSLFVAFQQLRAQHFQENSRMPVVKPDIANWELSVKHL DKVHTVVASNNGSVFSVEVDGSKLNVSTWNLASPLLSVSDGT QRTVQCLSRFAGGNMSIQFLGTIVYKVNILTRLAELNKFMLEKV TEDTSSVLRSPMPGVVAVSVKPGDAVAEGQEICVIEAMKMQNS MTAGKTGTVKSVCQAGDTVGEGLLVELE
6233	1	2654	HSTRENLNAGNFNFPSEHGLVRSTGPGGSFAKHMVAQCVPKGP

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			LACSRTYFFGATHVPYLGGSCLKPKKTEQIRLLSQIYAAVIEAV LAGIACYAKTSSSLTKAKEVAEQTLGSGLDSEFELIPFKAALRSKM TFHIHAVNNOGRIVPLDSEDSLSFVKTACMAVYDIPDLLGGNGC LGSVVFSESLTSQILVKEKDGTVTTTSSVLTAAVPRFCSWL VEDNEVKLSEKTHQAVRGDESFLGTLYTGEGAYLYSSNLQSWP EEGNVHFFSSGLLFSHCRHGSIIISKDHMSISFYDGDSTSTVA ALLIDFKSSLLPHLPVHFHGSNPLMIALFPKSKIYQAFYSEVF SLWKQODNSGISLKVIEDGLSVEQKRLHSSAQKLFSAQSOPAG EKRSSLKLKLSAKLPDLWFLQHFAPSSISQEPVMRTHLPVLLQW AEINTTHRIESDKVIIISIVTGLPGCHASELCAFLVTLHKECGRW MVYRQIMDSSECFHAAHFQRYLSSALEAQQRNSARQSAYIRKKT RLLVVLQGYTDVIDVQALQTHPDSNVKASFTIGAITACVEPMS CYMEHRFLFPKCLDQCSQGLVSNVFTSHTTEQRHPLLVQLQSL IRAANPAAAFILAENGIVTRNEDIELISENSFSSPEMLRSRYL MYPGWYEGKLNAGSVYPLMVQICVWFGPRPLEKTRFVAKCKAIQS SIKPSFFSGNIYHILGKVKFSDSERTMEVCYNTLANSLSIMPVL EGFTPPPPDSKSVSQDSSQCECYLVFIGCSLKEDSIKDWLRQSA KQKQPKALKTRGMLTQOEIRSIHVKKHLEPLPAGYFYNGTQFV NFFGDKTDFHPLMDQFMNDYVEANREIRKYNQLEQQEYHDLF ELKP
6234	1731	404	PRVREDMDHKSFGNKGSLVYAGIKSIVKSSLGMVSESRHNSWGL DKQSDIQNLNEERILALQLCGWIKKGTDDVGPFLNSLVQEGEW ERAAVALFNLDIRRAIQILNEGASSEKGLNLNVVAMALSGYT DEKNSLWREMCSTLRLQLNPNYLCVMFAFLTSETGSYDGVLYEN KVAVRDRVAFACKELSDTQLNRYIEKLTNEMKEAGNLEGI LLTG LTKDGVLDLMEYVDRGTGDVQTASYCMIQGSPLDVLKDERVQYWI ENYRNLLDAWRFWHKRAEFDIHRSKLDPSKPLAQVFSVSCNFCG KSISYSCSAVPHQGRGFSQYGVSGSPTKSKVTSCPGCRKPLPRC ALCLINMGTPVSSCPGGTKSDEKVDLSKDKKLAQFNWFTWCHN CRHGGHAGHMLSWFRDHAECFVSACTCKCMQLDTTGNLVPAETV QP
6235	1	571	EKRDRHRLPSWPRAALKVPGRGGRVGTTPELAAGGIMATRNPPPO DYSEDDDDSYEVLDTLEYARRHQWNRVFGHSSGPMVEKYSVATQ IVMGGVTGWACGFLFQXVKGKLAATAVGGGFLLLQIASHSGYVCI DWKRVEKDVNKAQRQIKKRAKAAPEINNLIIEATEFIKQNIIVI SSGFVGGFLLGLAS
6236	1	703	WDQNGGAAAGSGTLTFLPSARFSAGPPTQSRPTMSNMEKHIF NLKFAAKELSRSAKKCDKEEKAEEKAKIKKAIQKGNMEVARIHAE NAIRQKNQAVNFLRMSARVDAVAARVQTAVTMGKVTKSMAGVVK SMDATLKTMLNLEKISALMDKFEHQFETLDVQTOQMEDTMSSTTT LTTPOQNVDMLLQEMADEAGLDLNMELPQGGTGSVGTSVASAEQ DELSQRLARLRDQV
6237	312	720	PTAMAEEGIAAGGVMDVNTALQEVLTALIHDLGARGIREAAKA LDKRQALCVLASNCDEPMYVKLVEALCAHQINLIKVDNKKL GEWVGLCKIDREGKPRKVVGCSCVVVKDYGKESQAKDVIEEYFK CKK
6238	2	4666	EBVPTQESVKWEINVIKNEPIVFVADMTKNDAPALVITTCCEI CYKGNLENSTMTAAIKDLQVRACFFLPVKRKGKITTVLQPCDLF YQTTQKGTDPQVIDMSVKSLLTKVSPIINTMITITSALYTTKE TIPEETASSTAHLWEKKDTKTLKMWFLEESNETEKIAPTTELVP KGEMIKMNIDSIFIVLEAGIGHRTVPMLLAKSRFSGEGKNWSSL INLHCQLELVHYNNEMFGVWEPLLEPLEIDQTEDFRPWNLGK MKKKAKMAIVESDPPEENYKVPEYKTVISFHSKDQLNITLSKCG LVMLNNLVKAFTEATGSSADFKDLAPFMILNSLGLTISVSPS DSFVSLNIPMAKSYVLKNGESLSMDYIRTKDNDFNAMTSLSSK LFFILLTFVNHSTADKIPLTQVGRRLYTVRHRESGVERSIVCQI

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			<p>DTVEGSKKVTIRSPVQIRNHFSVPLSVYEGDILLGTASPENEFN IPLGSYRSFIFLKPEDENYQMCCEGIDFEEIINKDGAALLKKKCRS KNPSKESFLINIVPEKDNLTSLSVYSEDGWDLPYIMHLWPPILL RNLLPYKIAIYIEGIEINSVFTLSEGHSAQICTAQLGKARLHLKL LDYLNHDWKSEYHIKPNQQDISFVSFTCVTEMEKTDLDIAVHMT YNTGQTVAFAHSPYWMVNKTGRMLQYKADGIHRKHPPNYKKPVL FSFQPNHFFNNNKVQLMVTDSLSNQPSIDTVGSHGAVKCKGLK MDYQVGVITIDLSFNITRIVTFTPFYMIKNKSKYHISVAEENGND KWLSDLLEQCIPFWPEYASSKLLIQVERSEDPPKRIYFNKQENC ILLRLDNELGGIIAEVNLAEHSTVITFLDYHDGAATFLLINHTK NELVQYNQSSLSIEDSLPPGKAVFYTWADPVGSRRLKWRCKRS HGEVTKQDDMMMPIDLGEKTIYLVSFEEGLQRIILFTEDPRVFK VTYSEKAEALAEQETIAVALQDVGISLVNNYTKQEVAYIGITSSD VWVETKPKKKARWKPMKSVKHTKLEREFKYTESSPSEDKVIQL DTNVPVRLTPTGHNMKILQPHVIALRRNYLPALKVEYNTHSAHQ SFRIQIYRIQIQNHGAVFPFVFPVKPKSVTMDSAKPFID VSIWMRSAGHSQISRIKYFKVLIQEMDLRLDLGFYIALTDLME AEVTENTEVELPHKDIKAEKKEEYKTASLVDSQSQVSLYEFHPS IKLHLSVSLSSGREGAEKSKQNGGLIPVHSLNLLKLSIGATLTD VQDVVFKLAFELNYQFHTTSDLQSEVIRHYSKQAIKQMYVLIL GLDVLGNPFGILREFSEGEVAFYEPYQGAIQGPEEFVEGMALG LKALVGGAVGCLACAASKITGAMAKGVAAMTDEVDYQKRRRAM NKQPAFREGITRGKGLVSGFVSGITGIVTKPIKGAQKGGAG FFKVGKGLVGAVARPTGGIIDMASTTQGIKRAETETSEVESLR PPRFNEDGVIRPYRLRDTGNQMLQKIQFYREWIMTHSSSSDD DDDDDDDESDELNH</p>
6239	2108	634	<p>KPGMAGKSSSGRPLLLGLLVAATVHLVICPYTKVEESFNLOA THDLLYHWQDLEQYDHLFEPGVVPRFTFLGPVVLAVFSSPAVYVL SLEMSKFYSQLIVRGVGLGVIFGLWTLQKEVRRHFGAMVATM FCWVTAMQPHLMFYCTRTLPNVLALPVLLALAAWLRHEWARFI WLSAFIIIVFRVLCFLGLGLLLALGNRKVSVVRLRHAVPAG ILCLGLTVAVDSYFWRQLTWPEGKVLWYNTVLNKSNNWGTSPLL WYFYSALPRGLGCSLLFIPLGLVDRRTAFTVLALGFALYSL PHKELRFIYAFPMNLITAARGCSYLLNNYKKSPLYKAGSLVIT GHLVVNAAYSATALLYVSHFNYPGGVAMQRLHQLVPPQTDVLLHI DVAAAQTVGSRLQVNSAWRYDKREDVQPGTGMLAYTHILMEAA PGLLALYRDTHRVLASVVGTTGVSLLNLTLQPPFNVLQTKLVLL ERLPRPS</p>
6240	2202	1176	<p>HERGDSLKEPTSLAESRRHPSYRSEFSLPESEFRSPFTGKSFHF DPLSSGSRSSSLKSAQGTGFELGQLQSIRSEGTSTSYKSLANQ TRNGSLSYDSLTPSDSPDFESVQAGPEPDPPLGYTSPFLSARL AQQREARHRLVPTGPTHTREPSVRYDNLSRHIVASLQEREKL LRQSPPLPGREEEPGLGDSGIGSTPGSGHAPRTSSSSDDSKRSP LGKTPLGRPAVPRFGKPDGLRGRGVGSPEPGPTAPYLGRSMSYS SQAQPGVSETEEVALQPLLTPKDEVQLKTTYSKSNQPKSLGS ASPGPGQPLSSPTRGGVKVSXGVTYETSV</p>
6241	3	1341	<p>RNAEEKRLSLQREKTIARVSDNRTRALVQALRRITDPKLCIT RVEELTFHLLFPEGKGVAVKERIIPYLLRLRQIKDETLLQAAR ETILALIGYVDPVKGRGIRILSIDGGGTRGVVALQTLRKLVELTQ KPVHQLFDYICGVSTGAILAFMLGLFHMPLDECEELYRKLGSV FQGNVIGTVKMSWSHAFYDSQWENILKDRMGSAIMIETARNP TCPKVAAVSTIVNRGITPKAFVFRNYGHFPGINSHYLGCCQYKM WQAIRASSAAPGYFAEYALGNLDLHQDGLLLNNPSALAMHECKC LWPDVPLECIVSLGTGRYSDVNTVTYTSKTKLSNVINSATD TEEVHIMLDGLLPDPTYFRFNPVMCENIPLDESREKLDQLQLE GLKYIERNEQMKKVKILSQEKTTLQKINDWIKLTKDMEYGLP</p>

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6242	198	1310	FFSKL QHFLPGAETWSPGAAVCTARRFPGRSLAAPPRAAPRAVEMGE SSEDIDQMFSTLLGEMDLLTQSLGVDLTPPPDPNPRAEFNYSV GFKDLNESLNALEDQDLADLADLVADISEAQRTIQAKESLQ NQHHSASLQASIFSGAASLGYGTNVATGISQYEDDLPPPPADP VLDLPLPPPPPEPLSQEEEEAAKADKIKLLEKLKEAKVKLV VKVHMNDNSTKSLMVDERQLARDVLDNLFKTHCDNVDWCLYE IYPELQIERFFEDHENVVVLSDWTRDTENKILFLEKEEKYAVF KNPQNFYLDNRGKESKETNEKMNAKNKESLLEVRLLQSGRKE KDVCSI FKSFAENNGKI
6243	1509	614	RSASRFSGCWSRDSTCCCPSTCWSRSSASCPRARWPPSSAPAT TSRASSRRLACGPQTRAGAE TRSTAMIRANSAARDTRATCRSA AGTPSPPTMTCLTDVPTGCAAVEPTARLPAAAWASTITGCCPA MQQAGAGPAGRGKSEAGGGPGRAHHAHPSPLPREPRVRTGPPAH SPTPGSIDPSPELSWGSAGVTQESPLLDVDFLLFRTRAVDFLR RVFFFFYQHLTFPSIQPPPPCHAFHPRDEPPAGTKRQLILVPLK GPPILAPILSLTPILSRWSCYFPRSRIAQGWHL
6244	2119	1745	FEHAYASQFGTFLGNNESEKCKLQKQKMSLWSWNQPSLSK FTNPLFEANNLVIWPSVAPQSLPLWEGIFLRWNRSSKYLDEAYE EMVNI IEYNKELQAKVNILRRQLAELETEDEGMQESP
6245	81	1148	LSLRNAKYSFPQELISLFSMTDLNDNICKRYITKMTINIVLSLI ICISLAFWIISMTASTYIGNLRPISPRWNLFSVVVPVLIVSNGL KKKSLDHSGALGGLVVGFIITIANFSFFTSLMFFLSSSKLTKW KGEVKKRLDSEYKEGGQRNVQVFCNGAVPTLALLYMIENGPG EIPVDFSKQYSASWMLSLAALACASAGDTWASEVGPVLSKSSP RLITTEKVPVGTNGGVTVVGLVSSLLGGTFVGIAFLTQLIFV NLDLISAPQWPIIAFGGLAGLLGSIIVSYLGATMQYTGLDESTG MVVNSPTNKARHIAKPI LDNNVAVNLFSVVLIALLLPTAANGFW PRG
6246	1177	359	SLWPFILMDDSLMQISLQLLCVYTANFPNGCSSLCWSSCGQHPV QATHRGAVSNSMLCILKLASQMPLENTTVQMVFMLLSNLALS HDCKGVIQKSNFLQNFSLALPKGGNKHLSNLTILWLKLLNIS SGEDGQOMILRLDGLDCLLTEMISKYKHKSSPLPLLI FHNVCFS PANKPKILANEKVITVLAACLESENQNAQRIGAAALWALTYNQ KAKTALKSPSVKRRVDEAYSLAKKTFPNSEANPLNAYYLKCLN LVQLNNS
6247	3	1678	NSRVWGPWTEPSAGSLRPMARKQNRNSKELGLVPLTDDTSHAGP PGPGRALLECDHLRSGVPGGRRRKDWSCSLLVASLAGAFGSSFL YGYNLSVVNAPTPIKAFYNESWERRHGRPIDPDTLTLWSVTV SIFAIGGLVGLTI VKMIGKVLGRKHTLLANNGPFAISALLMACS LQAGAFEMLI VGRFIMGIDGGVALSVLPMYLSEISPKEIRGSLG QVTAIFICIGVFTQQLGLPELLGKESTWPLYFGVIVVPAVVQL LSLPLFPDSPRYLLEKHNEARAVKAFOTFLGKAHVSQEVVEVL AESRVQSRIRLVSVLELLRAPYVRWQVVTIVITMACYQLCGLNA IWFYTNSIFGKAGIPPAKIPYVTLSTGGIETLAAVFSGLVIEHL GRRPLLIIGFGMLGFFGTITITLQDHAPWVPYLSIVGILAI IASFCSGPGGIPFILTGEFFQQSQRPAAFIAGTVNWSNFAVG LLFPP IQKSLDTCFLVFATCITGAIYLYFVLPETKNRTYAEI SQAFSKRNKAYPPEEKIDSAVTDGKINGRP
6248	56	1773	VPPPRMMAAVPPGLEPWRNRVIRPKAGNRSAVTQNPAAALDLCT AAVIKECHLVILSLKSQTLDAETDVLCAVLYSNHNRMRGRKPHL ALKQVEQCLKRLKNMNLGSIQDLFELFSSNENQPLTTKVCVVP SQPVVELVLMKVLGACKLLRLDCCCKTFLLTVKHILGLQEFII LNLVMVGLVSRWLVLYKGVLRLLLYEPLFGLLQEVARIQMP YKDFTFPSDITEFLGQPYEAFKKKMPIAFAAKGINKLLNKL LINEQSPRASETLLGISKAKQMKINQNNVDLGQPVKNRVP

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6249	56	1773	KEESSEFDVRAFCNQLKHKATQETSFDFKCSQSRLKTTKYSSQK VIGTPHAKSFVQRFREAESFTQLSEEIQMAVVMCRSKKLKAQAI FLGNKLLKSNRLKHLEAQGTSLPKKLECIKTSICNHLRGSGIK TSKHHLRQRRSQNKFLRRQRKPQKQLQSTLLREIQQFSQGRKS ATDTSAKWRLSHCTVHRTDLYPNSKQLLNSGVSMPIQTKCKMI HENLRGIHENETDSWTVMQINKNSTSGTIKETDDIDDIFALMGV VPPPRMMAAVPPGLEPWNVRVTPKAGNRSVAVTQVQNEGAALDLCT AAVIKECHLVLSLKSQTLDAETDVLCAVLYSNHNRMRGRHKPVL ALKQVEQCLKRLKNMNLGSIQDLFELFSSNENQPLTTKVCVVP SQPVVELVLMKVLGACKLLRLDCCCKTFLLTVKHLGLQEFII LNLVMVGLVSRLLVLYKGVLRRLILLYEPLFGLLQEVARIQPMF YFKDFTFPPSDITEFLGQPYFEAFKKKMPIAFAAGINKLNLKLF LINEQSPRASEETLLGISKKAKQMKINQVNNVDLQGPVKNKRVF KEESSEFDVRAFCNQLKHKATQETSFDFKCSQSRLKTTKYSSQK VIGTPHAKSFVQRFREAESFTQLSEEIQMAVVMCRSKKLKAQAI FLGNKLLKSNRLKHLEAQGTSLPKKLECIKTSICNHLRGSGIK TSKHHLRQRRSQNKFLRRQRKPQKQLQSTLLREIQQFSQGRKS ATDTSAKWRLSHCTVHRTDLYPNSKQLLNSGVSMPIQTKCKMI HENLRGIHENETDSWTVMQINKNSTSGTIKETDDIDDIFALMGV LAALHIMALPFRKDLKVKDLDEDELGNLSETELKQLETVLDD LDPENALLPAGFRQKNQTSKSTGPPFDREHLLSYLEKEALEHKD REDYVPYTGEEKGKIFIPKQKPVQTFTEEKVSLDPELEALISA SDTELCDLAAILGMHNLITNTKFCNIMGSSNGVDQEHFSNVVKG EKILPVFDEPPNFTNVEESLKRTKENDAHLEVNLLNINKNIP TLKDFAKALETNTHVKCFSLAATRSNDPVATAFAEMLKVNKTLK SLNVESNFTITGVGILALIDALRDNETLAEKIDNQROQLGTAVE LEMAKMLEENTNILKFGYQFTQQGPRTAANAATKNNDLVRKRR VRGDHQ
6250	232	1306	LAALHIMALPFRKDLKVKDLDEDELGNLSETELKQLETVLDD LDPENALLPAGFRQKNQTSKSTGPPFDREHLLSYLEKEALEHKD REDYVPYTGEEKGKIFIPKQKPVQTFTEEKVSLDPELEALISA SDTELCDLAAILGMHNLITNTKFCNIMGSSNGVDQEHFSNVVKG EKILPVFDEPPNFTNVEESLKRTKENDAHLEVNLLNINKNIP TLKDFAKALETNTHVKCFSLAATRSNDPVATAFAEMLKVNKTLK SLNVESNFTITGVGILALIDALRDNETLAEKIDNQROQLGTAVE LEMAKMLEENTNILKFGYQFTQQGPRTAANAATKNNDLVRKRR VRGDHQ
6251	62	972	TPGSGPMSAWAAASLSRAAARCLLARGPGVRAAPPDRPRSPHPE PRGCGAAPGRTLHFTAAVPAGHNKWSKVRHIKGPDKDVERSRIFS KLCNIRLAVKEGGPNPEHNSNLANI LEVCRSKHMPKSTIETAL KMEKSKDTYLLYEGRGPGGSSLLIEALSNSSHKQCADIRHILNK NGGVMVAGARHSFDKKGVI VVEVEDREKKAVNLERALEMAIEAG AEDVKEDEDEERNVFKFICDASSLHQVRKKLDSLGLCSVSCAL EFIPNSKVQLAEPDLEQAHLIQALS NHEDVTHVYDNIE
6252	27	1897	EEFCTWIAVRVGEMETAPKPGKDVPPKKDKLQTKRKKPRRYWEE ETVPTTAGASPGPPRNKNREL RPQRPKNAYILKKSRI SKKPQV PKKPREWKNPESQRLSGAQDPFPGPAPVPVVEVQKFCRIDKSR KLPHSKAKTRSRLEVARAE EETS IKAARSELLLAEEPGFLEGE DGEDTAKIQAADIVEAVD IASAAKHFDLNLRFQGPYRLNYSRTG RHLAFGGRRGHVAALDWVT KKL MCEINVMEAVRDIRFLHSEALL AVAQNRWLHIYDNQIELHCIRRCDRVTRLEFLPPHFLATASE TGFLTYLDVSVGKI VAALNARAGRLDVMSQNPYNAV IHLGHSNG TVSLWSPAMKEPLAKILCHRGGRVRAVADSTGYMATSGLDHQL KIFDLRGTYQPLSTRITLPHGAGHLAFSQRGLLVAGMGDVVNIWA GGGKASPPSLEQPYLTHRLSGPVHGLQFCPFEDVLGVGHTGGIT SMLVPGAGEPNFDGLESNPYRSRKQRQEWVKALLEKVPALIC LDPRALAEVDV I SLEQKKEQIERLGYPQAKAPFPKPKQKGR SSTASLVKRRKVMDEEHRDKVRQSLQQQHHKEAKAKPTGARPS ALDRFVR
6253	27	1897	EEFCTWIAVRVGEMETAPKPGKDVPPKKDKLQTKRKKPRRYWEE ETVPTTAGASPGPPRNKNREL RPQRPKNAYILKKSRI SKKPQV PKKPREWKNPESQRLSGAQDPFPGPAPVPVVEVQKFCRIDKSR KLPHSKAKTRSRLEVARAE EETS IKAARSELLLAEEPGFLEGE DGEDTAKIQAADIVEAVD IASAAKHFDLNLRFQGPYRLNYSRTG RHLAFGGRRGHVAALDWVT KKL MCEINVMEAVRDIRFLHSEALL

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			AVAQNRLHIYDNQGIELHCIRRCRDVTRLEFLPFHLLATASE TGFLLTYLDVSVGKIVAALNARAGRLDVMSCNPYNAVILHGSNG TVSLWSPAMKEPLAKILCHRGGVRAVAVDSTGYMATSGLDHQL KIFDLRGTYQPLSTRTPHAGHLAFSQRGLLVAGMGDVVNIWA GQKASPPSLEQPYLTHRLSGPVHGLQCFPFEDVLGVGHTGGIT SMLVPGAGEPNFDGLESNPYRSRKQRQBEVKALLEKVPALIC LDPRLAEVDVISLEQGGKEQIERLGYDPOAKAPFPKPKQKGR SSTASLVKRKRKVMDEHRDKVRQSLQQQHHKEAKAKPTGARFS ALDRFVR
6254	155	1139	HALGRRGGSQELSAACGCFALRLRAPGSGRPALAPGAAAFAGL GGAPRFPFPRGSAAGRTMLLKEYRICMPLTVDEYKIGQLYMISKH SHEQSDRGEVGVQNEPFEDPHHGNGQTEKRVYLSKLPSPA RAVVPKIFYVTEKAWNYPPYTITEYTCSPFLPKFSIHETKYEDN KGSNDTIFDNEAKDVEREVCFIDACDEIPERYKESDPKHFK SEKTGRGQLREGWRDSDHOPIMCSYKLVTKFEVWGLQTRVEQFV HKVVRDILLIGHRQAFVWDEWYDMTDDVREYKEMHEQNTNIK VCNQHSPPVDIESHAQST
6255	1	1444	PTRPQQLLVSLATVIFVASQKALSVEKAVIKQQLSESVNGWT VYRIARQASRMGNHMAKELYQSLLTQVASKHFYFWLNSLKEFS HAEQCLTGLQEENYSSALSCIAESLKFYHKGIASTAASTPLNP LSFQCEVFKLRIDLQAFSGLICTNSLKTSPPPAIATTIAMTL GNDLQRCGRISNQMKQSMEEFRSLASRYGDLYQASFDADSATLR NVELQQQSCLLISHAIEALILDPESASFQEYGSTGTAHADSEYE RRMMSVYNHVL EEVESLNGKYTPVSYMHTACLCAI IALLKVPL SFQRYFFQKLQSTSIKLALSPSPRNPAEPIAVQNNQQLAKVEG VVQHGSKPGLFRKIQSVCLNVSSTLQSKSGQDYKIPIDNMTNEM BQVPEPHNDYFSTQFLNFAILGTHNITVESVVDKANGIVWKTG BRTTTFVKSLEDYPYSQQIRLQQQQAQOPLQQQQQRNAYTRF
6256	1	1542	CRGAGAEPANPRSPRLVPSLESTSTSVPPAFGTMTDSWALA VDEQEAAAEELS NLHLKEEKIKPDITNGAVVKTNAEKTDEEEK EDRAAQSLNKLIRSNLVDNTNQVEVLQDRPNSPLYSVKSFEEL RLKPQLLQGVYAMGFNRPSKIQENALPLMLAEPQNLIAQSQS TGKTAAFVLAMLSQVEPANKYPQCLCLSPTYELALQTGKVIQOM GKFPYELKLAYAVRGNKLERGQKISEQIVIGTPTGTVLDWCSKLK FIDPKKIKVFLDEADVMIATQGHQDQSIQIRMLPRNCQMLLF SATPEDSVWKFQKVPDPNVIKLREBEETLDTIKQYVVLCS DEKFOALCNLYGAITIAQAMIFCHTRKTASWLAELSKEGHQVA LLSGEMMVQRAAVIERFREGKEKVLVTNVCAIGIDVEQSVV INFDLVPDKDGNPDNETYLHRIGRTRFGKRGGLAVNMVDSKHS MNLNRIQEHFNKKIERLDTDDLDEIEKIAN
6257	210	615	AFIPAMAEILIQKKLQGEVEKYQQLQKDLKSMSGRQKLEAQLTE NNIVKEELALLDGSNVVFKLLGPVLVKQELGEARATVGKRLDYI TAEIKRYESQLRDLERQSEQQRETLAQLQQEFQRAQAAKAGAPG KA
6258	210	615	AFIPAMAEILIQKKLQGEVEKYQQLQKDLKSMSGRQKLEAQLTE NNIVKEELALLDGSNVVFKLLGPVLVKQELGEARATVGKRLDYI TAEIKRYESQLRDLERQSEQQRETLAQLQQEFQRAQAAKAGAPG KA
6259	2	1540	ILEKGFPSQCHPERKWKVDDVLESSQENEDDHFWEELFHNNKTV SVENGDRGSKTFNLGTPVSLRNPYKICDSCMNLNISGLII SKNCNSRKKPDEFNVCEKLLDIRHEKIPIGKSYKVDQKRNAI NYHQDLSQPSFGQSFEYSKNGQGFHDEAAFFTNKRSQIGETVCK YNECGRTFIESLKLNISQRPHLEMEPYGCSICGKSFCMNLRFH QRALTNDNPEYNEYEIGEFCNSAFIIHQGAYTRKILREYKVSD KTWESALLKHQIVHMGGSYDYNENGSNFSKSHLTQLRRAHT GEKTFECGECGKTFWEKSNLTQHQRTHTEKPYECTECGKAFCQ

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			KPHLTNQHRTHTGKPYECKQCGKTFCKVSNLTHQRTHTGKPYECNACGKSFCHRSALT VHQRTHTGKPFICNECGKSFCKVSNLIVHQRTHTGKPYKCNCEGKTFCEKSALTQHQRTHTGKPYECNACGKTFQSQRSVLTQKHQRIHTRVKALSTS
6260	2081	1436	GTGPEITHACAHASARAPGSRAMALRELKVCLLGDTGVGKSSIVWRFVEDSFDPNINPTIGASFMTKTQYQNELHKFLIWDTAGQERF RALAPMYRGSAAAIIVYDITKEETFSTLKNVVKELRQHGPPII VVAIAGNKCDLIDVREVMERDAKDYADSIHAI FVETSAKNAINI NELFTIISRRIIPSTDANLPSGGKGFKLRRQPSSEPKRSCC
6261	3	1188	FWYRLGPGTRSRWRPRGSSWAASLVPRGSPAPALVTSFCPPDPLRSPACEPCRPDFAPRPALLLRSGPRSPAPVTKGPKLKGQPGFWPGMAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLAS NVQRNRLVQHDLOVAKQLQEQEDLKAQAQLQKRYKDLEQQDCBIA QEIQEKLAIEAERRRIQEKKEDDIARLLQEKELQEEKRKKHFFP EFPATRAYADSYVYEDGGMKPRVMKEAVSTPSRMAHRDQEWYDA EIAKRLQEBELLATQVDMRAAQVAQDEEIAARLLMAEEKKAYKKA KEREKSSLDKRRQDEWKPCTAKAANSKSKESDEPHHSKNERPARPPPIIMTDGEDADYTHFTNQSSSTRHFSKSESSHKGFFHYKH
6262	2	1759	PECHSQGLCSVHRPGKVPQARMGSLVGLGQDEPAGHRLSQEELI GSTRLVSQGLEALRSEHQAVLQSI.SQTIECLOQGGHEEGLVHEK ARQLRRSMENIELGLSEAQVMLALASHLSTVESEKQKLRAQVRR LCQENQWLRLDELAGTQQLRQSEQAQAQLEEEKKLEFLGQLRQ YDEGHTSBEKEGDATKDSLDDLFPNEEEEDPSNGLSRQGGATA AQQGGYIEIPARLRLTHNLVQYAAQGRYEVAVPLCKQALEDLER TSGRGHDPVATMLNIALVYRDQNKYKEAAHLLNDALSIRESTL GPDPHPAVALTNLNLAVLYGKRGKYKEAEPLCORALEIREKVLGT NHPDVAQQLNNLALLCQNGQKYEAVERYQALAIYEGQLGPDN PNVARTKNNLASCYLKQKGYAEATLYKEILTRAHVQEFSGVDD DHKPIWMHAEREEMSKSRHHEGGTPYAEYGGWYKACKVSSPTV NTTLRNLGALYRRQGLKAAETLEECALRSRRQGTDPISQTKVA ELLGESDGRRTSQEGPGDSVKFEGGEDASVAVENSGDGGSTLQR SGSLGKIRDVLRR
6263	1	2408	RELDSLADLPERIKPPYANGLSTSHLRSSSVEDVKLIISEGRPT IEVRRCSMPFSVICHETKQFQTISEESNQGSLLTVPGDTSPPSPKP EVFSNVPERDLNVSNIHSSFATSPGTGASNSKYVSADRNLIKNT APVNTVMDSPVHLEPSSQVGVQKNSWEMPVDRLETSTRDFIC PNSNIPDQESSLQSFNCSENKVLKENADFLSLRQTELPNGSCAQ DPASFMPQQPCSFPSQSLSDABSISKHMSLSYVANQEPGILQQ KNAVQI ISSALDTDNESKTENTFVLGDVQKTDAPVPVYSDST IQEASPNFEKAYTLPLVPSEKDFNGSDASTQLNTHYAFSEKLTYS SSGHEVENSTDTQVISHEKENKLESVLTHLSRCDSDLCBMN AGMPKGNLNEQDPKHCPESEKCLLSIEDEESQQSILSSLENHSQ QSTQPEMHKYGQLVKVELEENAEEDKTEENQIPQRMTRNKANTMA NQSKQILASCTLLSEKDESSSPRGRIRLTEDDDPQIHHPKRRK VSRVPQPVQVSPSLQAKEKTQQSLAAIVDSLKLDEIQPYSSER ANPYFYLHIRKKIEEKRLKCSVIPQAPQYVDEYVTFNGSYLL DGNPLSKICIPTITPPPSLSDPLKELFRQQEVVRMKLRLQHSIE REKLIVSNEQEVLRVHYRAARTLANQTLFSACTVLLDAEVYNV PLDSQSDSKTSVRDRFNARQFMSWLQDVDDKFDKLTCTLMRQ QHEAALNAVQRLEWQLKLQELDPATYKSIISYETIQEYVPLVD VNDDFELTPI
6264	143	1960	KHRQENNALDMAPEIAMTGMCLIENTNGELVANPEALKILSAI TQPVVVVAIVGLYRTGKSYLMNKLAKNGFSLGSTVKSHTKGI WMWCVPHPKKPEHTLVLLDTEGLGDVKKGDNDQNSWIFTLAVLL SSTLVYNSMGTINQAMQQLYYVTELTHIRSKSPDENENEDS ADFVSFFPDPFVWTLRDFSLDLEADGQPLTPDEYLEYSLKLTQGT

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			<p>SQKDKNFNLPRLCIRKFFPKKKCFVFDLPPIHRRKLAQLEKLQDE ELDPEFVQVADFCSYIFSNSKTKTLSSGGIKVNGPRLESVLTY INAI SRGDLPCMENAVLALAQIENSAAVQKATAHYDQMGQKVQ LPAETLQELLDLHRVSEEREATEVYMKNSEKDVHDLFQKKLAAQL DKKRDDFCQKQNEASSDRCSALLQVIFSPLEEEVKAGIYKPGG YCLFIQKLQDLEKKYEEPRKGIQAEELQTYLKSKEVTDAIL QTDQILTEKEKEIEVECVKAESAQASAKMVEEMQIKYQMMEEK EKSYQEHVKQLTEKMERERAQLEEQEKTLSKLEQARVLKER CGESTQLQNEIQKLQKTLKKTKRYMSHKLKI</p>
6265	143	1960	<p>KHRQENNALDMAPEIHMGTGPMCLIENTNGELVANPEALKILSAI TQPVVVVAIVGLYRTGKSYLMNKLAKNGKGLSGSTVKSHTKGI WMWCVPHPKPEHTLVLLDTEGLDVKKGDNDQNSWIFTLAVLL SSTLVNSMGTINQAMDQLYYVTELTIRIRSKSSPDENENEDS ADFVSFFPDFVWTLRDFSLDLEADGQPLTPDEYLEYSKLKTQGT SQKDKNFNLPRLCIRKFFPKKKCFVFDLPPIHRRKLAQLEKLQDE ELDPEFVQVADFCSYIFSNSKTKTLSSGGIKVNGPRLESVLTY INAI SRGDLPCMENAVLALAQIENSAAVQKATAHYDQMGQKVQ LPAETLQELLDLHRVSEEREATEVYMKNSEKDVHDLFQKKLAAQL DKKRDDFCQKQNEASSDRCSALLQVIFSPLEEEVKAGIYKPGG YCLFIQKLQDLEKKYEEPRKGIQAEELQTYLKSKEVTDAIL QTDQILTEKEKEIEVECVKAESAQASAKMVEEMQIKYQMMEEK EKSYQEHVKQLTEKMERERAQLEEQEKTLSKLEQARVLKER CGESTQLQNEIQKLQKTLKKTKRYMSHKLKI</p>
6266	276	1421	<p>GSHQKQMLVPCFLYSLQNRKPSLYGSLTCOGIGLDGPIPEVTASE GFTVNEINKSIHISCPKENASSKFLAPYTTFSRIHTKSITCLD ISSRGGGLGVSSSTDGTMKIWQASNGELRRVLEGHVFDVNCRRFF PSGLVVLGGMDAQLKIWSAEDASCVVTFKGHKGGILDTAIVDR GRNVVSASRDGTARLWDGCRSACGLVLADCGSSINGVAVGAADN SINLGSPEQMPSEREVGTEAKMLLLAREDKKLQCLGLQSRQLVF LFIGSDAFNCCTFLSGFLLLAGTQDGNIIYQLDVRSPRAPVQVIH RSGAPVLSLLSVRDGFIASQGDGSCFIVQDLDVYVTELTGADCD PVYKVATWEKQIYTCCRDLVRRYQLSDL</p>
6267	3	622	<p>LGMKKNNSAKRGPQDGNQPPAPPEKVGWVRKFCGKGIPIREIWK NRYVVLKGDQLYISEKEVKDEKNIEQVFDLSYKCELRKSKS RSKINHSKFTLAHSKQPGNTAPNLI FLAVSPEEKESWINALNSA ITRAKNRILDEVTEEDSYLAHPTDRAKIOHSRRPPTRGHLMMA VASTSTSDGMLTDLIQEEDPSPEEPTSLC</p>
6268	160	1368	<p>HRELQNLPAGLSSALIDNPLTLLSIDTYVMLQEPVTFQDVAU DPSREEWGLLGPTQRTYRDVMLETFGHLVSVGWETTLENKELA PNSDIPEEPAPSLKVQESSRDICALSSTLEDTLQGGVQEVQDTV LKQMESAQEKDLPQKKHFDNRESQANSALDTNQVSLQKIDNPE SQANSALDTNQVLLHKIPPRKRLRKRDSQVKSMMKHSRVKIHQ KSCERQAKEGNGCRKTFSRSTKQITFIRIHKGSQVCRCECGK IFRNPRYFSVHKIHTGERPYVCQDCGKGFVQSSSLTQHQRVHS GERPFECQCGRTFNDRSAISOHLRTHTGAKPYKCQDCGKAFRQ SSHLIRHQRTHTGERPYACNKGKAFQSSHLIGHQRTHNRTRKR KKKQPTS</p>
6269	2886	1449	<p>HASAPTRRNMAASPLRDCHAWKDARLPLSTTSNEACKLFDATL TQYVVKWINDKSLGGIEGCLSKLKAADPTFVMGHAMATGLVLIGT GSSVKLDKELDLAVKTMVEISRTQPLTRRELHVS AVETTFANGN FPKACELWEQILQDHPTDMLALKFSDHAYFYLYGYQEQRMSVAR IYPFWTPDIPLSSYVKGIYSFGLMETNFYDQAEKLAKALSNP TDAWSVHTVAHIHEMKAEIKDGLFEMQHSETLWKDSMDLACHNY WWWALYLIKEGEYEAALTYDTHILPSLQANDAMLDVVDSCSML YRLQMEGVSVGQRWQDVLPAVKHRSRDHILLFNDAHFLMASLGA HDPQTTOELLTTLRDAESPGENCQHLLARDVGLPLCQALVEAE</p>

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			DGNPDRVLELLLPYRIVQLGGSNAQRDVFNQLLIHAALNCTS SVHKNVARSLLMERDALKPNSPLTERLIRKAATVHLMQ
6270	23	2086	SVTVTLGSEGDGRPPTYHLEEMEQQEPQNGEPAETKITREAYKKA FLFVNKGLNTDELQKKEAKNYYKQIGIGILLRGISISSKESEHT GPGWESARQMQQKMKETLQNVTRLEILEKGLATSLONDLQEVF KLYPEFPKDMCEKLEPEPQSFSSAPQHAENVNGNTSTPSAGAVAA PASLSLPSQSCPAEAPPAYTPQAAEGHYTVSYGTDSGEFSSVGE EFYRNHSQPPPLETLGLDADELILIPNGVQIFVNPAGEVSAPS YPGYLRIVRFLDNLDTVLNRPFGFLQVCDWLYPLVPDRSPVLK CTAGAYMFPDTMLQAGCFVGVVLSSELPEDDRELFDLLRQMS DLRLQANWNRABEENEFQIPGRTRPSSDQLKEASGTDVKQLDQG NKDVRHKGKRGKRAKDTSSSEEVNLSHIVCEPVPEEKPKELPEW SEKVAHNILSGASVWSWGLVKGAETGKAIQKGA SKLRERIQPE EKPVEVSPAVTKGLYIAKQATGGAAKVQFLVDGVCTVANCVGK ELAPHVKKHGSKLVPESLKKDKGKSLDGMVVAASSVQGFST VWQGLECAAKCIVNNVSAETVQTVRYKYGYNAGEATHHVD SAV NVGVTAYNINNIGIKAMVKKTATQTGHTLLEDYQIVDNSQRENQ EGAANVNVVRGEKDEQTEKVEKRAKKDK
6271	32	1058	GCGVKTAGMVGREKELSIHFVFGSCRLVEEEVNI PNRRVLVTGA TGLLGRAVHKFEQQNNWHAVGCGFRRARPKFEQVNLDSNAVHH I IHDQPHVIVHCAERRPDVVENQPDAAQNLVDASGNLAKA EAAGVAFIYISSDYVFDGNTPPYREEDIAPALNLYGKTKLDGEK AVLENNLGAVALRIPILYGEVEKLEESAVTVMFDKVQFSNKSAN MDHWQQRFPFTHVKDVATVCRQLAEKRM LDP SIKGTFHWSGNEQM TKYEMACAIADAFNLPSHRLRPITDSFVLGAQRPRNAQLDCSKL ETLGGQRTPFPRIGIKESLWPLIDKRWRQTVPFH
6272	1136	528	GAVMEDAAPGRTEGVLERQGAAPAGQGGALVELTPTPGGLAL VSPYHTRAGDPLDLVALAEQVQKADDEFIRANATNKLTVIAEQI QHLQEQARKVLEDAHRDANLHHVACNIVKKPGNIYYLYKRESGQ QYFSIISPKEWGTSCPHDFLGAYKLQHDLSWTPTYEDIEKQDAKI SMMDTLLSQSVALPPCTEPNFQGLTH
6273	256	843	SCPRVSPECRLGCGVMFSLPLNCSPDHRRGSCWGRPDQLKIA SAAWNSKCHPGAGAAARQARTLWYDRPRYVMEFCVEDSTDV HVLIEDHRI VFSCKNADGVELYNEIEFYAKVNSKDSQDKRSSRS ITCFVRKWKKEKVAWPRLTKE DIKPVWLSVDFDNWRDNEGDEEME LAHVEHYAEVRDNTYCVLPT
6274	56	1142	AAAAAAGGGAGAAARSLSRFRGLAGALLGDCVGSFYEAHDT VDLTSVLRHVQSLEPDGTPGSETEALYTTDDTAMARALVQSL LAKEAFDEVDMARFAQYKKDPDRGYGAGVTVFKKLLNPKCR DVPEPARAQFNGKGSYGNCGAMRVAGISLAYSSVQDVQKPARLS AQLTHASSLGYNAILQALAVHLALQGESSSKHFLKQLLGHMED LEGDAQSVLDARELGMEBRPYSSRLKKIGELLDAQSVTREEVVS ELGNGIAAFESVPTAIYCFRLCMEPDPEIPSAFNSLQRTLIYSI SLGGDDTDIATMAGALAGAYYGMQVPEWSQQSCGEYEETDILA QSLHRVFQKS
6275	20	565	SRRGARCLARGSRFRPFAKTMAMVKTVMVGQLKNTGSLG GGEDKGDGDKSAEAQMSREEYEQKQLVEEKMERDAQFTQR KAERATLRSHFRDKYRLPKNETDESQIQMAGGDVELPRELAKMI EEDTEEEEEKASVLGQLASLPGLNLGSLKDKAQATLGDLKQSAE KCHVM
6276	797	97	TLLPLPFLPDTEGMILLNTGLEGTVAENPVPIVHTPSGNILTLE SCLQLATHPGHWGIHLQIAEPALRPSLALLARLSSLLHWP VVVGAKISHGSFVPGHVAGRELLTAVAEVFPVHTVAPGWPEEV LGSGVREQLLTDMLELCQGLWQPVFSQAMLLGHSTAGAIGRL LASSPRATVTVEHNPAGGDYASVRTALLAARAVDRTRVYRLLPQ GYHKDLLAHVGRN

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6277	4600	2744	MAFRTEMGLYYSYFKTIVEAPSEFLNGVMMIMNDKLTTEYPLVINT LKRPNLYPEVILASWYRIYTKIMDLIGIQTKICWTVTIGEGLSF TESCEGLGDPACFYVAVIFILNGLMMALFFIYGYTLSGSRLGGL VTVLCEFFNHGECTRVMTWTPPLRESFSYPFLVLQMLLVTHILRA TKLYRGSIALCISNVFFMLPWQFAQFVLLTQIASLFAVVYVGY IDICKLRKIIYIHMISIALCFVLMFGNSMLLTSYASSLVIIWG ILAMKPHFLKINVSELSLWVIQGCFFLPGTVILKYLTSKIIFGIA NDAHIGNLLTSKFYSYKDFDFTLLYTCAAEFDMEKETPLRYTKT LLLPVVLVGFVAIVRKIISDMNGVLAKQOQTHVRKHQFDHGLVY HALQLLAYTALGILIMRLKLFITPHMCMVASLTCRQLFGWLF KVHPGAIIVFAILAAMSIGGSANLQTOWNIVGEFSNLQEELEW IKYSTKPDVAFAGAMPTMASVKLSALRPVNNPHYEDAGLRART KIVYSMYSRKAEEVKRELIKLVNYYILEESWCVRRSKPGCSM PEIWDVEDPANAGKTPLCNLLVKDSKPHTTVPQNSVYKVLV KE
6278	3	823	ILFRLVLLSLVYLLNSVATEERKPAEVLIVEGQYAVVGTVLL IRIILEYCOGVDNIPSVTTDMLTRLSDLLKYFNRSRSCQLVLGAG ALQVVLGKTITTKNALSSRCLQLIVHYIPVIRAHFEARLPKQ YSMLRHFHDHITKDYHDHIAEISAKLVAIMDSLFDKLLSKYEVKA PVPSACFRNICKQMTKMHEAIFDLLPEEQTQMLFLRINASYKLIH LKKQLSHLVINDGGPQNGLVTAADVFTGNLQALKGLKDLDLN MAETWEQXR
6279	127	1687	GGAMASDGARKQFWKRSNSKLPGSIQHVYGAQHPPFDPLHGT LRSTAKMPTTPVKAARVSTFQEFESNTSDAWDAGEDDDELLAMA AESLNSEVVMETANRVLNRHSQRQGRPTLOEGPGLQKPREAE PPSEPSGDLRLVKSVSESHTSCPAESASDAAPLQRSQSLPHSAT VTLGSTSDPSTLSSALSEREASRLDKFQQLLAGPNTDLEELRR LSWSGIPKPVPMPTWKLLSGYLPANVDRRPTLQKQKEYFAFI EHYDSDRNDEVHQDTYRQIHIDIIPMSPEALILQPKVTEIFER LFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEVDTVDVS GVPAEVLNCIEADTYWCMSKLLDGIQDNYTFAQPGIQMKVKMLE ELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIR LWDTYQSEPDGFSHFHLYVCAAFVLRWRKEILEEKDFQELLFL QNLPTAHWDDEDISLLAEAYRLKFAADAPNHYKK
6280	857	2515	ECCDQKMGSRNSSAGSGSDPSEGLPRRGAGLRSEEEEEDE DVDLAQVLAAYLLRRGQVRLVQGGGAANLQFIQALLDSEENDRA WDGRLGDRYNPPVDATPDTRLEFNEIKTQVELATGQLGLRRAA QKHSFPRMLHQREGLCHRGSPSLGEGSRVISHFLPNDLGFTDS YSQKAFCGIYSKDGQIFMSACQDQTIIRLYDCRYGRFRKFKSIKA RDVGWSVLDVAFTPDGNHFLYSSWSYIHCNIYGEEDTHALT LRPDERRFAVFSIAVSSDGREVLGGANDGCLYVFDREQNRRTLQ IESHEDDVNAFAFADISSQILFSGGDDAICKVWDRRTMREDDPK PVGALAGHQDGITFIDSKGDARYLISNSKDQTIKLWDIRRFSSR EGMEASRQAATQQNWDYRWQVPPKAWRKLKLPDSSSLMTRYGH GVLHTLIRCRFSPHSTGQQFYISGCSSTGKVVVYDLSGHIYVK LTHKACVRDVSWHFPFEKIVSSWDGNLRLWQYRQAEYFQDDM PSEECASAPAPVQSSSTPFSSPO
6281	857	2515	ECCDQKMGSRNSSAGSGSDPSEGLPRRGAGLRSEEEEEDE DVDLAQVLAAYLLRRGQVRLVQGGGAANLQFIQALLDSEENDRA WDGRLGDRYNPPVDATPDTRLEFNEIKTQVELATGQLGLRRAA QKHSFPRMLHQREGLCHRGSPSLGEGSRVISHFLPNDLGFTDS YSQKAFCGIYSKDGQIFMSACQDQTIIRLYDCRYGRFRKFKSIKA RDVGWSVLDVAFTPDGNHFLYSSWSYIHCNIYGEEDTHALT LRPDERRFAVFSIAVSSDGREVLGGANDGCLYVFDREQNRRTLQ IESHEDDVNAFAFADISSQILFSGGDDAICKVWDRRTMREDDPK PVGALAGHQDGITFIDSKGDARYLISNSKDQTIKLWDIRRFSSR

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			EGMEASRQAATQONWYRWQQVPKAWRKLKLPDSSLMYVRGH GVLHTLIRCRFSPIHSTGQQFIYSGCSTGKVYVYDLSGHIVVK LTNHKACVRDVSWHPPFEKIVSSSWDGNLRLWQYRQAEYFQDDM PESEECASAPAPVPQSSTPFSSPQ
6282	125	906	RMAACRALKAVLDLSGTLHIEDAAVPGAQAEALKRLRGASVIR FVNTTTEKSKQDLERLRKLEPDISEDEIFTSLTAARSLERKQ VRPMLLVDDRALPDFKGIQTSDFNAVVMGLAPEHFHYQILNQAF RLLDGAPLIAIHKARYYKRKDGALGPGPFVTALEYATDTKAT VVGKPEKTFLEALRGTGCEPEEAVMIGDDCRDDVGGAQDVGM GILVKTGKYRASDEEKINPPPYLTCEFPFAVDHILQHLL
6283	140	1043	LSLFGIHMNPFWSMSTSSVRKRSEGEKTLTGVDKTSPPRTAP KKQLPSIPKNALPITKPTSPAPAAQSTNGTHASYGPFYLEYSL AEFTLVVKQLPGVYVQPSYRSALMWFGVIFIRHGLYQDGVFKF TVYIPDNYPDGDCPRLVFDIPVHPLVDPTSGELDVKRAFVKR RNHNHIWQVLMYARRVFKIDTASPLNPEAAVLYEKDQLFKSK VDSVKVCTARLFDQPKIEDPYAISFPWNPSVHDEAREKMLTQ KKKPEEQHNKSVHVAGLSWVKPGSVQPFSSKEEKTAT
6284	1	2879	RSVIPGSTISSRWFGLSRPRFMAHEWDWQREELIGQISDIRV QNLQVERENVQKRTFTTRWINLHLEKCNPPLEVKDLFVDIQDGI LMALLEVLSGRNLLEYKSSSHRIFRLNNIAKALKFLEDNSVKL VSDAAEIAADGNPSLVGLIWNILFFQIKELTGNLSRNSPSSS LAPSGGTDSDSFPPTPAERSVAISVKDQRKAIKALLAWQR KTRKYGAVQDFAGSWRSGLAFLAVIKADPSLVDMQALENST RENLEKAFSIAQDALHIPRLLEPEDIMVDTPEQSIMTYVAQFL ERFPELEAEDIFDSKKEVPIESTFVRIKETPSEQESKVFVLTE GERTYTVNHETSHPPSKVFCVKDPESMKFRLDGVSSHALSDS STEFMHQIIDQVLQGGPGKTSIDISEPSPSSILSRKENGSRNS LPIKKTVEFEADTYKDFFCCKNLSCFEGSPRVAKESLRQDGHV LAVEVAEEKEQKQESSKIPSSSDKVAGDIFLVEGTNNSSSS CNGALESTARHDEESHSLSPGENTVMADSFQIKVNLMTVEALE EGDYFEAIPLKASKFNSDLIDFASTSQAFNKVPSPHETKPDADA EAFENHAEKLGKRSIKSAHKKDSPEPQVKMDKHEPHQDSGEA EGCPSAPEETPVDDKKEVHEKARKKSTRPHYEEGEDDDLDQGVG EELSSSPSSCVSLETLSHSEGLDFKPSPLSKVSVIPHDLF YFPHYEVLAAVLBAVVEDPEDLKNEEMDLEPEGYMPDLDSRE BEADGSGSSSSSVPGESLPSASDQVLYLSRGVGTTPASEPAP LAPHEDHQORETKENDPMDSHQSQSPNLENIANPLEENVTKES ISSKKKEKRKHVDHVESLFLVAPGSVQSSDDLEEDSSDYSIPSR TSHSDSSIYLRHTRHRSSESDFSLCSVEERSRSG
6285	2157	1331	SCKTENLLEMMWFQGLSFLPSALVIWTSAAFIYSYITAVTLHH IDPALPYISDTGTVAPEKCLFGAMLNIAAVLCIATYVRYKQVH ALSPEENVIIKLNKAGLVGLSCLGLSIVANFQKTLFAAHVS GAVLTFMGSLYMFVQTLISYQMQPKIHGQVFWIRLLVWICG VSALSMITCSSLVHSGNFGTDLEQKLHWNPEDKGYVLHMITTAA EWSMSFSFFGFFLYIRDFQKISLRVEANLHGLTLYDTAPCPIN NERTRLLSRDI
6286	1619	276	KAGASCCGSANPYVSVGKSCVLLAMAQLQTRFYTDNKKYAVDDV PFSIPAASEIADLSNI INKLLKDKNEFHKHVEFDLIKQFLRM PLDKHMEMENISSBEVVEIEYVEKYTAPQPEQCMFHDDWISSIK GAEEWILTGSYDKTSRISWLEGKSIIMTIVGHGTDVVKDVAWVKD SLSCILLASMDQITLLWENWVERNKVKAHCCRGHAGSVDSIA VDGSGTKFCSGSWDKMLKIWSTVPTDEDEMEESTNRPKQKT EQLGLTRTPITVLSGHMEAVSSVLWSDAEEICSAWHDHTIRVWD VESGSLKSTLTGNKVFNCSISYPLCKRLASGSDTRHRLWDPRT KDGLSVLSLTSHTGWVTSVKWSPTHEQQLISGSLDNIIVKLWDT RSCKAPLYDLAAHEDKVLVDWDTGLLSGGADNKLYSYRSP

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6287	278	1482	TTSHVGA MQFFNFQIGLRSTSGKEKYSQDAGFLGDALQLFLQCLALDEDF APAKLQVQKILCDLLPENLKEGLKESSWSSLPCTKNRPFDHFS VMEESQSLNEPSPKQSEIPEVTSEPVKGSINRAQSAQSINSTE MPAREDCLKRVSSEPVLSVQSKGVLLKRLSLEQDVIVNEDGR NKLKKQGETPNEVCMFSLAYGDIPEELIDVSDFECSLCMLFFE PVTTPCGHSFCNCLERCLDHAPYCPLCKESLKEYLADRRYCVT QLLEELIVKYLPELSEKRIYDEETAELSHLTKNVPIFVCTMA YPTVPCPLHVFEPYRLMIRRSIQGTQKQFMCVSDTQNSFADY GCMLQIRNVHFLPDGRSVVDTVGGKRFVRLKRGMDGYCTADIE YLEDV
6288	1	743	VTLYPCRGVLGNLLGASGMASGCKIGPSILNSDLANLGAECLE MLDSGADYLHLDVMDGHFVFNITFGHPVVESLRKQLGQDPFFDM HMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGM KVGLAIKPGTSVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMM PKVHWLRTQFPPLDIEVDGGVGPDTVHKCAEAGANMIVSGSAIM RSEDPFSVINLLRNVCSAAQKRSLEDR
6289	1	743	VTLYPCRGVLGNLLGASGMASGCKIGPSILNSDLANLGAECLE MLDSGADYLHLDVMDGHFVFNITFGHPVVESLRKQLGQDPFFDM HMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGM KVGLAIKPGTSVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMM PKVHWLRTQFPPLDIEVDGGVGPDTVHKCAEAGANMIVSGSAIM RSEDPFSVINLLRNVCSAAQKRSLEDR
6290	3	1856	TIGRWLLGVYETVAPTALCLPRPRLRRRRRRRRRMRISRYTRKA VPQSLKLGITKHALNHPPPEKLEBISPTSDSHEKDTSSQSKS DITRESSFTSADTGNLSAFPSTYTGAGISTEGSSDFSWGYGELD QNATEKVQTMFTAIDELLYEQKLSVHTKSQEECCQWTFASFPHL RILGRQIITPSEGYRLYFRSPSAVSASYETTLSEQERDSTIFGIR GKKLHFSSSYAHKASSIAKSSSFCSMERDEEDSIIVSEGIIEEY LAPDHIDIEEGFHGKKSEAAEKQKLGYPPIAPFYCMKEDVLAY VFDSVWCKVVSCEQLTRSHWEGFASDDESNVAVTRPDSSESCV LSELHPLVLPVPOSKVLYITSNPMSLCQASRHQPNVNDLLVHG MPLQPRNLSLMDKLLDLDKLLMRPGSSTILSTRNWPNAVFEFS TSSLSTVQSTRRRNPPFRTLHPITSTSHCAETPRSVEEILRGA RVFVAPDSLSSPSTPLSRNLLPPIGTAEVEHVSTVGFQRMK PHGSSRAQSAVVDEPNYQQPQERLLLPDFPRPNTTQSFLDTP QYRRSCAVEYPHQARPGRSAGPQLHGSTKSQSGGRPVSRTRQG P
6291	1732	602	LVAKMASSASARTPAGKRVINQEEELRLRMKEKQRLSTSRKRIES PPAKYNRLGQLSCALCNTPVKSELLWQTHVLGKHREKVAELKG AKBASQSSASSAPQSVKRPADDDQDVKRAKATLVPOVQFST SAWTTNFDKIGKEFIRATPSKPSGLSLLPDYDEEEEEEEEGD GERKRGDASKPLSDAQGKEHSVSSSREVTSVLPNDFFTNPPK APIIPHSGSIEKAEIHEKVVERRENTAEALPEGFFDDPEVDARV RKVDAPKDQMDKEWDEFQKAMRQVNTISEATVAEEDDEGRDRO IGEIDEQIECYRRVEKLRNRQDEIKNLKEILTIKELQKKEEN ADSDDEGELQDLLSQDWRVKGALL
6292	1835	1142	TCPGAMKMVAPWTRFYNSNCCCLCHVRTGTILLGVWYLIINAVV LLILLSALADPDQYNFSSSELGGDFEFMDANMCIAIAISLLMI LICAMATYGAYKQRAAWIIPFCYQIFDFALNMLVAITVLIYPN SIQYIRQLPPNFYRDDVMSVNPTCLVLIILLFISIIITFKGY LISCWNCYRIINGRNSSDVLVYVTSNDTTVLLPPYDDATVNGA AKEPPPPYVSA
6293	2382	1035	FWCTLGTVDVHPIGWCAINSKILVPPRTIHAKFTDWKGYLMKRL VGSRTLPVDFHIKMVESMKYPFRQGMRLVVDKSKQVSRTRMAVV DTVIGGRLLLYEDGSDDDFWCHMMSPLHPVGWSRRVGHGKIK

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			MSERRSDMAHHTFRKIYCDAPVYLFKKVRAVYTEGGWFEEGMK LEAIDPLNLGNICVATVCKVLLDGYLMICVDGGFSTDGLDWFCY HASSHAIFPATFCQKNDIELTPPKGYEAQTFNWNYLEKTKSKA APSRFLNMDCPNHGFVKGMKLEAVDLMEFRLICVATVKRVVHRL LSIHFDGWDSYDQWVDCESPDYIPVWGCELTGYQLQPPVAAEP ATPLKAKEATKKKKQFGKKRKRIPTKTRPLRQGSKKPLLEDD PQGARKISSEVPVGEIIAIVRVKEEHLVASPKASSPELPVSVE NIKQETDD
6294	354	1814	AQLTTRGRTVAGGVRWIPSPFPDLELYSCCLGTDGFPPELSHHC KNVIATASDYDMAEITNIRPSFDVSPVAGLIGASVLVVCVSVT VPVWSCCHQQAEEKHKNPYKFHMLKGISTYPTLSNKKKIIK VRRDKDGPREGGRNLLVDAAEAGLLSRDKDPRGSPSSGSCIDQ LPIKMDYGEELRSPITSLTPGESKTTSPSSPEEDVMLGSLTFSV DYNFPKKALVVTTIEAHGLPVMDQDTQGSDDPYIKMTILPKRHR VKTRVLRKTLDPVDETFYFGIPYSQQLDLVHLVLSFDRFS RDDVIGEVMPVLAGVDPSTGKVQLTRDIIKRNIOKCSIRGELQV SLSYQVPAQRMTVVVLKARHLQKMDIAGLSGNFYVKVNVYGRK RIAKKTHVKCTLNPIFNESFIYDIPTDLLPDISIEFLVIDFD RTTKNEVVGRLLILGAHVTASGAHWEVCESPRPVAKWHSLS EY
6295	2795	617	VSSALLTGATSGSDAAKSEGASAPLSCTNAVAMDRPDEGPPAK TRRLSSSESQRPDPPIPPPPPLLRPLPPPPQRRRLQRETEAA QVLADMARGVGLGAPLPPPPYVILEEGGIRAYFTLGAECPGWDS TIESGYGEAPPPTESLEALPTFEASGGSLEIDFQVQSSSFGGE GALETCSAVGWAPQRLVDPKSKKEAIIIVEDEDEDERESMRSSR RRRRRRRRKQKVKRESRERNAERMESILQALEDIQLDLAVNI KAGAFRLRLKRFIQMRPFLERRDLIIQHIPGFVWKAFLNHR ISILINRRDEDIFRYLTNLQVQDLRHHISMGYKMKLYFQTNPYFT NMVIVKEFQNRNSGRVSHSTPIRWHRGQEPQARRHGNQDASHS FFSWFSNHSLEADRFAEIIKNDLWVNPLRYLRERGSRIKRRK QEMKKRKTGRCEVVIMEDAPDYAVEDI FSEISDIDETIHDIK ISDFMETTDYFETTDNEITDINENICDSENPDPHNEVPNNETDN NESADDHETTDNNESADDNNENPEDNNKNTDDNEENPNNNENTY GNNEFFKGGFWGSHGNNQDSSSDSDNEADEASDDEDDNGNEGDN SDDGNEGDNESDDDDRDIEYYEKVIEDFDKQADYEDVIEII SDESVEEGIEEGIQOQDEIYEEGNYEEGESDVEEGEDSDDS DLEDVLQVPNGWANPGKRGKTG
6296	727	1199	RHCGCDAQGACDSLPTGTSSPVTARNATPEARCCVWLLDGTTV EAVRPARERLARKELRQKRMQFSDSAYSSNKDSTCLLTERDT LGTSLOFPSPFSGTISFGSFSDSGIFPLGSQCCLGFQQFSISGK KWALIKRVRVLSVFGARWGRIYFGK
6297	1	922	QRAAASPSGCGRGAEGALMAMEGYWRFLALLGSALLVGFLS VIFALVWVLYHREGLGWDGSALEFNWHPVLMVTGFFVIQGI VYRLPWTWKCSKLLMKSIHAGLNAVAAILAISVVAVFENHNVN NIANMYSLSHWSVGLIAVICYLLQLLSGFSVFLLPWAPLSLRAFL MPIHVYSGIVIFGTVIATALMGLTEKLIFSLRDPAYSTFPPEGV FVNTLGLLILVFGALIFWIVTRPQWRKPEPNSTILHPNGGTEQ GARGSMPAYSGNNMDKSDSELNNEVAARKRNALDEAGQRTM
6298	3	985	SVPLRLSLSGTLQAGTTTKMAVARLAAVAANVPCRSWGAAY PFGPHRGLSVLLARIQPRAPRWLPACRQKTSLSFLNRPDLNLA YKLGKSGPIIFIPGYLSYMGTKALAEFEFCKSLGHACIRFD YSGVGSSDGNSEESTLGKWRKDVLSIIDDLADGPQILVGSLLGG WMLHAAIARPEKVVALIGVATAADTLVTKFNQLPVELKKEVEM KGVMSMPKSYSEGVVNVQYSFIKEAEHCHLLHSPIPVNCPIRL LHGMKDDIVPWHTSMQVADRVLSTDVDVILRKHSDBRMREKADI QLLVYTTIDDLIDKLSTIVN

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6299	512	814	RCDELEGIMPVNTISLSLPTNGSPLQDILVHPCVTSILDSAILTSS SIDAMDCSAFSGPYKFPPTPPLESFNLCFYTSQVPPVPPILGFYQ MKEEVQLRNNH
6300	121	692	AAPSCWSQRGVPAAGTPSSPRLLVSRRAAPSAGPWGAWRQGAR AQSPFSIPNSSSVPGSQDSVHSSPEDGGGGRDRPVGGSPGGPR LVIGSLPAHLSPHMFGGFKCPVCSKEVSSDEMDDLHVMCLTKPR ITYNEDVLSKDAGECAICLEELQGGDTIARLPCLCIYHKGCI WFEVNRSCPEHPSD
6301	616	284	GKFVPVNWEPFQPLFFPKYLRCYRCLETKELGCLIGSDICLTP AGSSCITLHKNSGSDVMVSDCRSEQMSDCNTRTSPVSGFW IFSQCFLDFCNDPQNRGLYTP
6302	490	745	IFGFLHLFMEHSFLLVCAFAHVFFSSSCGSSVALHSDPCLLS PVLLNCLPGDLRLDELAYAKLKYKAISELDHALNDMTSL
6303	2	1961	YWNVEYGGGLWQSWQEXHPGQALSSEPWNFPDTEKEWEQHSOL YWYLEQFQYWEAQGWTFDASQSCDITDYSKTTEADKNDKCM KVDLVSLSSPIMGDNSSGTSDDKHSEILDGINSIKLNSEEV QSQSDSCTSHDGHQQLSEVSSKRECPASGQSEPRNGGTNEESNS SGNTNTDPPAEDSQKSSGANTSKDRPHASGTDGDESEEDPPEHK PSKLKRSHELDIDENPASDFDDSGSLLGPKYSGSQYGGIPNFS HRQVRYLEKNVCLKSKYLDMMRQIKMKKNKHIFFTESEKPFKK SKILSKVEKFLTWVNKPMDEEASQESSHNDNGHDASTSCDSEEQ DMSVKKGGDLDLENNPEPEKCSQSVSSAGELETERYERDSLATV PDEODCVTQEVDPDSQAETEAEVKKKKKKKKKKVNLGPPPIAA VPELAKYWAQRYLFSRFDGKILDRGWFSVTPEKLAHIAGR VSQSFKCDVVVDAFCGVGGNTIQFALTGMRVIAIDIDPVKIALA RNNAEVYGIADKIEFICGDFLLASFLKADVVFLSPWPWGGPDYA TAEFTDITRMTSPDGFEIFRLSKKITNIVYFLPRNADIDQVAS LAGPGGQVEIEQNFLNNKLTITAYFGDLIRRPASET
6304	1	1438	HRARVDRSRESPPGDLRHPGRVRRDITLSGHPRLSTQHVVLLRE DEVGDPGTDKLGHPQHGSPIQETQSEVTVLVSPLPGSDMAALPA WRATSGTLTWPHATAEGRDLLGAENRALTGGQQAEDPTLASGAYQ WPGSVKLGQSVWCDAETLLSSRTGGQAPPWLTDDHVDQMLRL AQGEVVDKARVPAHQVQLQVGFSTEALQDLSSPRLSQLCSQGL CGLIKRPGDLPEVLSFHVDRVGLRRLSPAVARRFHSPLLPYRY TDGGARFVIWWAPDVQHLSDPDQNSLALGNLQVQALLAHSCN WPGQAPCPGIHTEWARLALFDPLLQVHDLDRYCCGFEPSPSD PCVEERLREKCRNPALRLVHLVRSDDPSHLVYIDNAGNLQHP EDKLNFRLLLEGIDGFFESA VKVLASGCLQNMLLKSLQMDPVFWE SQGGAQGLKQVLQTLERQGVLLGHIQKHNLTFRDEDP
6305	99	420	NMIWRGRSTYRPRRSVFPPELIGPMLEPGDEEPQOEFPPTES RDPAPGQEREDQGAETQVPDLADLQELSQSKTGDECGDGPD VQGKILTKSEQPKMPEGR
6306	1	1874	PTRPSKVVPHTFLIHSYTRPTVCQACKLLKGLFRQGLQCKDC KFNCHKRCATRVNDCLGEALINGDVPMEEATDFSEADKSALMD ESEDGVI PGSHSENALHASEEEEGEGGKAQSSLGVI PLMRVVQ SVRHTTRKSSTTLREGVVVHYSNKDTLRKRHYWRDLCKCITLFO NNTTNRYYYKEIPLSEILTVEAQNPSLVPPGTNPHCFEIVTANA TYFVGEMPGGTPGGPSGQGAZAARGWETAIRQALMFVILQDAPS APGHAPHRQASLSISVNSQIQENVDIATVYQIFPDEVLGSGQF GVVYGGKHKRTGRDVAVKVIDKLRFPFTKQESQLRNEVAILQSLR HPGIVNLECMFETPEKVFVMEKLGDMLEMLISSEKGRLEPER TKFLITQILVALRHLHFKNIVHCDLKPENVLASADPPQVKLC DFGFARIIGKSFRRSVVGTAYLAPEVLLNQGYNRLDMWSVG VIMYVLSLSTGTFPNEDEDINDQIQNAAFMYPASPWHSISAGAI LINNLLQVKMRKRYSDKSLSHPLQEQYQTLWDLRELEGKMER YITHESDDARWEQFAAEHPLPGSGLPTDRDLGGACPPQDHDMMQ

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6307	2136	589	LAERISVL CFLLPRGRDPEPPEAGAAAPCAPGAPDMSFRKVVRSKFRHVFG QPVKNDQCYEDIRVSRVTWDSDFCAVNPKFLAVIVEASGGGAFL VLPLSKTGRIDKAYPTVCGHTGPVLDIDWCPHNDEVIASGSEDC TVMVWQIPENGLTSPLTEPVVVLEGTAKRVGI IAWHPTARNVL SAGCDNVVLWNVGTABELYRLDSLHPDLIYNVSWNNGSLFCS ACKDKSVRIIDPRRGTVAEREKAHEGARMRAIFLADGKVF GFSRMSEKQALWDPENLEPMALQELDSSNGALLPFYDPDTSV VYVCGKGDSSIRYFEITEEPYIHFNTFTSKPEQRMGSMKPKR GLEVSKCEIARFYKLERKCEPIVMTVPRKSDLFQDDLYPD PEAALEAEWVSGRDADPILISLREAYVPSKQORDLKISRRNVLS DSRPAMAPGSSHLGAPASTTTAADATPSGSLARAGEAGKLEEV QELRALRALVKEQGDRI CRLEEQLGRMENGDA
6308	2	1118	GRPTRPEKMLLSLVHTYSMRVLLPSVVLGTAPTIVLAWGVWR LLSAFLPARFYQALDDRLYCVYQSMVLFFFENYTGVTLLYGLD PKNKENI IYLANHQSTVDWIVADILAIQNALGHVRYVLKEGLK WLPYLGWYFAQHGGIYVKRSKAFNEKEMRNKLSYVDAGTPMYL VIFPEGTRYNPEQTKVLSASQAFAAQRGLAVLKHVLT VAPDCMKNYLDAIYDVTVVYEGKDDGGQRRESPTMTEFLCKECP KIHIIHIDRIDKDVPEEQEHMRRLHERFEIKDKMLIEFYESPD PERRKRFPKGSVNSKLSIKKTLPSMLILSGLTAGMLMTDAGRKL YVNTWIYGTLLGCLWVTIKA
6309	220	563	LVAEVKEPCSLPMLSVDMENKENGSGVGVKNSMENGRRPPDPADWA VMDVWNYFRTVGFEEQASAFQEQEIDGKSLLLMTRNDVLTGLQL KLGPALKIYEHVVKPLQTKHLKNSS
6310	36	979	GPRCWFLLILSSVNCETLRIGKAWPQSSGQERYWTPRTHSSASE AQRGSLAELNVAAGLWADCDQPLYDCPMGLICTNYHILQEHV DLHLEENSFQQGMDRVQCSGDLQLAHLQOEEDRKRRESRQE IEEFQKLQRQYGLDNGSGGYKQQQLRNMEIEVNRGRMPPSEFHR KADMMESLALGFDDGKTKTSGIIEALHRYQNAATDVRVWLLSS VVDHFSLSLGDKGWCGYRNFQMLLSSLLQNDAYNDCLKGMILP CIPKIQSMIEDAWKEGFDPOGASQLIIRLQGTAKWIGACEVYIL LTSLRV
6311	1	675	PVWNNSECEPRLAAARTGHGVGRRRLACLGEPRVKAAMVMTL ASKLRDDGLKGSRTAATASDSTRRVSVRDKLLVKEVAELEANL PCTCKVHFDPENKLHCFQLTVPDEGYQGGKFQFETEPDAYN MVPPKVCLTKIWHFNITETGEICLSLLREHSIDGTGWAPTRTL KDVVWGLNSLFTDLNFDPLNIEAEHHLRDKEDFRNKVDDYI KRYAR
6312	213	1400	GDELVKREAGMKMLPGVGVFGTGSSARVLVPLLRAGFTVEALW GKTEEEAKQLAEEMNIAFYTSRTDDILLHQVDVLCISIPPLT RQISVKALGIGKNNVCEKAATSVDAFRMVTASRYYPQLMSLVGN VLRFLPAFVRMKQLISEHYVGAVMICDARIYSGLLSPSYGWIC DELMGGGGLHTMGTYIVDLLTHLTGRRRAEKVHGLLKTFRQNA IRGIRHVTSDDFCFQMLMGGGVCSTVTNLFNMPGAFVHEVMV GSAGRLVARGADLYGQKNSATQEELLLRDSLAVGAGLPEQGPQD VPLLVLKGMVYMQALRQSFQGGQDRRTWDRTPVSMASFEEDGL YMQSVVDAIKRSSRSGEWEAVEVLTEEPDNTQNLCEALQRNNL
6313	2	2071	QRSGAARLAFLLPSEFFSPACVHRSPLSFHGCWFYFVWFMPLGVL FHRRAHGCTLSCSSFVEQPTAMEAEETMECLQEFPEHHKMILD RLNEQREQDRFTDITLIVDGHFKAHKAVALAACSKFFYKFFQEF TOEPLVEIBGVSKMAFRHLIEFTYTAKLMIQEEEEANDVWKA FLQMLEAIKALEVRNKENSAPLEENTTGKNEAKRKIAETSNI TESLPSAESEPEIEVEIAEGTIEVEDEGIEETLEEVASAKQSVK YIQSTGSSDDLSALALLADITSKYRQGRKQIKEDGCPSPDPTSK QVEGIEIVELQLSHVKDLFHCCKNRSFKLFYHFKHEHMKSHSTE

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			SFKCEICNRYLRESAWKQHLNLCYHLEGGVSKKQRTGKKIHVC QYCEKQFDHFGHFKHEHLRKHTGKPFCEPCNCHERFARNSTLKCH LTACQTGVGAKKGRKKLYECQVCNSVFNSWDQFKDHLVIHTGDK PNHCTLCDLWFMQGNELRRHLSDAHNISERLVTVEVLSVETRVQ TEPVTSMTIIEQVGKVHVLPLLQVQVDSAQVTVEQVHPDLLQDS QVHDSHMSSELPEQVQVSYLEVGRITQTEEGTEVHVEELHVERVNO MEVEVQTELEADLDHVTPEIMNQEERESSQADAAEAAREDHED AEDLETKPTVDSEAEKAENEDRTALPVL
6314	2	2071	QRSGAARLAFPLSPFSPACVHRSPLSFHGCWFFVVFVPLGLVL FHRRAHAGCTLSCSSFVEQPTAMEAETMECLQEFPEHKKMILD RLNEQREQDRFTDITLIVDGHFKAHKAVALAACSKFFYKFFQEF TQEPVLEIEGVSKMAFRHLIEFTYAKLMIQGEENDVWKAEE FLQMLEAIKALEVRNKENAPLEENTTGKNEAKKRIKIAETSNVI TESLPSAESEPVIEVEIAEGTIEVEDEGIEVLEVASAKQSVK YIQTSSDDSDALALLADITSKYRQDGRKGQIKEDGCPSPDPTSK QVEGIEIIVELQLSHVKDLFHCCKNRSFKLFYHFKHEMKSHSTE SFKCEICNRYLRESAWKQHLNLCYHLEGGVSKKQRTGKKIHVC QYCEKQFDHFGHFKHEHLRKHTGKPFCEPCNCHERFARNSTLKCH LTACQTGVGAKKGRKKLYECQVCNSVFNSWDQFKDHLVIHTGDK PNHCTLCDLWFMQGNELRRHLSDAHNISERLVTVEVLSVETRVQ TEPVTSMTIIEQVGKVHVLPLLQVQVDSAQVTVEQVHPDLLQDS QVHDSHMSSELPEQVQVSYLEVGRITQTEEGTEVHVEELHVERVNO MPVEVQTELEADLDHVTPEIMNQEERESSQADAAEAAREDHED AEDLETKPTVDSEAEKAENEDRTALPVL
6315	1	1015	IGLAVNVVTTLVLISYCPATEEAPYWTYLLCALGLFIQSLDA IDGQARRTNSCSPGLGELFDHGCDSLSTVFMVAGASIAARLGT PDWFFSCSFIGMFVYCAHWQTYVSGMLRFGKVDVTEIQIALVI VFLSAFGGATMWDYTIPILEIKLILPVLGFLGGVIFSCSNYF HVILHGGVGKNGSTIAGTSVLSPLHIGLIIILAIMIYKKSATD VFEKHPCLYILMFGCVFAKVSQKLVAHMTKSELYLQDITVFLGP GLLELDQYFNNFIDEYVVLWMAVISSFDMVIYFSALECLQISRH LHLNIFKTACHQAPEQVQVLSKSKSHQNNMD
6316	1503	792	VSAGAGTGIMGGTTSTTRVTFEADENENTTVVKGIRLSENVDR MKESSPSGSKSQRYSGAYGASVSDEELKRRVAEELALEQAKKES EDQKRLQAKELDRERAAANEQLTRAILRERICSEERAKAKHL ARQLEEKDRVLKKQDAFYKEQLARLEERSSEFYRVTTQYQKAA EEVEAKFKRYESHPCADLQAKILQCYRENTHTLKCASALATQY MHCNVHAKQSMLEKGG
6317	102	839	PEAQTSAVLAREKGHLPTMRHEAPMQMASAQDARYGQKQSSDQ FDYMFKLLTIGNSSVGKTSFLFRYADDSFTSAFVSTVGIDFKVK TVFKNEKRIKLQIWDTAGQERYRTITTAYRGAMGFILMYDITN EESFNAVQDWSTQIKTYSWDNAQVILVGNKCDMEDERVISTERG QHLGEQLGFEFFETSAKDNINVKQTFERLVDIICDKMSSELETD PAITAAKQNTRLKETPPPPQPCAC
6318	1765	733	PWHPLRTLPLHHPHPRPPRAEGREGADSMHLEPGLLRREAPPL LGPILLSPPPLPAGSWHRQMLRSLRFPITNSAGAPCKAAGRMNI LAPVRRDRVLAELPQCLRKEAALHGHKDFHPRVTCACQEHRTGT VGFKISKVIVGDLVSGKTCILNRFCKDTFDKNYKATIGVDFEM ERFEVLGIPFSLQLWDTAGQERFKCIASYYRGAQAIIVFNLN DVASLEHTKQWLADALKENDPSSVLLFLVGSKKDLSTPAQYALM EKDALQVAQEMKAEYVAVSSLTGENVREFFRVAALTFEANVLA ELEKSGARRIGDVVRINSDDSNLYLTASKKKPTCCP
6319	88	717	AATMRLNQNTLLLGKKVVLVPTSEHVPSRYHEWMKSEELQRLT ASEPLTLEQYAMQCSWQEDADKCTFIVLDAEKWQAQPGATEES CMVGDVNLFLTDLEDLTGIEVMAEPSCRGKGLGTEAVLAML SYGVTTLGLTKFEAKIGQGNEPSIRMFQKLHFEQVATSSVFEV

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6320	90	1111	TLRLTVSESEHQWLEQTSHVEEKPYRDGSAEPC RPRTGREKVMAA AVDSFYLLYREIARSCN CYMEALALVGAWYTA RKSITVICDFYSLIRLHFIPRLGSRADLIKQYGRWAVVSGATDG IGKAYABELASRGLNIILISRNEEKLVVAKDIADTYKVTETDII VADFSSGREIYLP IREALKDKDVGILVNNVGVFPYVQYFTQLS BDKLWDIINVNIAAASLMVHVLP GMVERKKGAIVTISGSCCK PTPQLAASFASKAYLDHFSRALQY EYASKGIFVQSLIPFV VATS MTAPSNFLHRC SWLVSPK VYAHAVSTLGISKRTTGYWSHSIQ FLFAQYMP EWLWVWGANILNRS LRKEALSCTA
6321	1418	341	HRKAALGALMAGRL LGKALAAVSLSLALASVTIRSSRCRGIQAF RNSFSSSWFHLNNTVMMSGNGSKENSHNKARTSPYPGSKVERSQ VNEKVGWLVEWQDYKPEYTA VSVLAGPRWADPQISESNFSPK FNEKDG HVERKSKNGLYE IENGRPRNPAGRTGLVGRGLLGRWGP NHAADPIITRWKRDSSGNKIMHPVSGKHILQFVAIKRKDCGEWA IPGGMVDPG EKISATLKR EFGEBALNSLOKTSAEKREIEKLHK LFSQDHLVIYKGYVDDPRNTDNAMMETEAVNYHDETG EIMDNLM LEAGDDAGKVKWDINDKLKLYASHSQFIKLVAEKRD AHWSEDS EADCHAL
6322	2047	1083	NQEILKNVSSRTVQPHFLEFLSLGWSVDVGRHPGWTGHVSTS WSINCCDDGEGSQQEVISS EDIGASIFNGQKKVLYYADALTEI AFVVPSPVESLTD SLESNISDQSDSNMMDLMPGILKQPSLTLEL FPNHTDNLNSSQRLSPSSRMRLPQGRFPVPLGPETRVSVVWVE RYDDIENFPLSELMTETISTGVETTANSSTSLRSTTLEKEVPVIF IHPLNTGLFRIKIQGATGKFNMVIPLVDMIVSRALGFLVRQT VINICRRKRLESDSYSPHVRKQKITDIVNKYRNKQLEPEFYT SLFQEVGLKNCS
6323	1	656	PASTTDGAQEARVPLDGAFWI PRPPAGSPKGC FACVSKPPALQA PAAPAPEPSASPPMAPTLFPMESSKSKTDSVRAAGAPPACKHLA EKKTMNTNPTTVIEVYPTTEVNDYYLWSIFNFVYLNFCCLGFTA LAYSILKVRDKLLNDLNGAVEDAKTDRLINITRSGLAASCIMLW MALSVIATHRGLRSSASITLVAEPHDWINTERPQVTFRERCPAL
6324	1	2061	EGAGMRRCP CRGSLNEAEAGALPAAARMGLEAPRGGRRRQPGQQ RPGPGAGAPAGRPEGGPWARTEGSSSLHSEPERAGLGAPGTES PQAEFWTDGQTEPAAAGLVETERPKQKTEPDRSSLRTHLEWSW SELGTTCLWTETGTDGLWTDPHRSDLQFQPEEASPTQPGVHGP WTELETHGSGTQPERVKSADNLWTHQNSSSLQTHPEGACPSKE PSADGSKELYTDGSRTOQDIEGPWTEPYTDGSGKKQDTEAARK QPGTGGFQIQD TDGSWTQPS TDGSGTAPGTDCLLGEPE DGPL EPEPGELLTHLYSHLKCSPLCPVPRLIITPETPEPEAQPVGPPS RVEGGSGGFSSASSFDESEDDV VAGGGGASDPDRSGSKPWKKL KTVLKYSFPFVVSFRKHYPWVQLSGHAGNFQAGEDGRILKRFCQC EQRSLEQLMKDPLRPFPVAYYGMVLQDGTTFNQMEDLLADFE GP SIMDCKMGSRTYLEBELVKARERPRPRKDMYEMVAVDPGAPT EEHAQGA VTKPRYMQWRETMSSTSLGFRIEIGIKKADGTCTNIF KKTQALEQVTKVLEDFVDGHVILQKYVACLEELREALEISPFF KTHEVVGSSLLFVHDHTGLAKVWMIDFGKTVALPDHQTLSHRLP NAEGNREDGYLWGLDNMICLLQGLAQS
6325	165	944	GLRDPFRKRRLKPKQVMSNYVNDMWPGSPQEKD SPSTSRSGGS SRLSSRSRSRSRSRSRSRSRVSSRFSSRSRSRSRSRSRRHQ RKYRRYSRSYSRSRSRSRSRRYRERYGFTRRYRSRSPRYSRS RSRSRSRGRSYCGRAYAIARGORYYGGRTVYP EHSRWDRSR TRSRSRTPFRLSEKDRMELLEIAKTNAAKALGTTNIDL PASLRT VPSAKETSRGIGVSSNGAKPEVSI LGLSEQNFQKANCQI
6326	238	680	GEPSPATQKPSATGAGVLHQHFSSGHIYVLMGLLPPPTISFT VOTTLOPPGGLPAAPVSGRMAFSPVGRDLARRMVPRAGKRTQT GARRVAAQGARPLPEDRRPKSGERLHVTVAPCWEFVLPVSULTA

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6327	1	1337	QAWGGVGQEAASSGVP SLARLAPAGGSVVMPTQQPAAPSTRAPKPSRSLSGSLCALFSDA DSGSGMKAELPPGPGAVGREMTKEEKLQLRKEKKQKKRKEEK GAEPETGSVAASAAQCQGPTRPELPSGIQLGTPREKVPAGRSKAE LRAERRAKQEAERALKQARKGEQGGPPPKASPTAGETPSGVKR LPEYPQVDDLLRLRLVKKPERQQVPTRKDYGSKVSLFSLPQYS RQNSLTQFMSIPSSVIHPAMVRLGLQYSQGLVRGNSNARCIALLR ALQQVIQDYTTTPNEELSRDLVNKLKPYMSFLTQCRPLSASMHN AIKFLNKEITSVGSSKREEEAKSELRAAIDRYVQEKIVLAAQAI SRFAYQKISNGDVILVYGCSSLVSRILQEAWEGRFRFRVVVDS RPWLEGRHTRSLVHAGVPASYLLIPAASYVLPEVSTEEKDSKV GGEKV
6328	1030	276	HASAEVTTAAARGLGAMEEEMHTDAKIRAENGTGSSPRGPGCSL RHFACEQNLLSRPDGSASFLOGDTSVLGAVGYGPAEVKVSKEIFN KATLEVILRPKIGLPGVAEKSRERLIRNTCEAVVLGTLHPRTSI TVVLQVVDAGSLLACCLNAACMALVDAGVPMRALFCGVACALD SDGTLVLDPTSQKEKEARAVLTFALDSVERKLLMSSTKGLYSDT ELQCCCLAAQAASQHVFRFYRESLQRRYSKS
6329	3	2016	SSEVAAGGGTRSAMAEGSGEVVTVSATQAANGLNNGAGGTSATT SNPLSRKLHKILETRLDNDKEMLEALKALSTFFVNSLRTRRNL RGDIERKSLAINEEFVSIKFEVKEELESISEDVQAMSNCCQDMT SRLQAAKEQTQDLIVKTKLQSESQKLEIRAOVADAPLSKQFLT SDMSLLRGTRREGPITEDFFKALGRVKQIHNDVKVLLRTNQOTA GLEIMEQMALLQETAYERLYRWQSECRTLTQESCDVSPVLTOA MEALQDRPVLKYKTLDEFGTARRSTVVRGFDALTRGGPGGTPR PIEMHSHDPLRYVGDMLAWLHQATASEKEHLEALKHVTQGOVE ENIQEVVGHITGVCRLKVRIEQVIVAEPAVLLYKISNLLKF YHHTISGIVGNSATALLTIEEMHLLSKKIFFNSLSLHASKLMD KVELPPDLGPSSALNQTIMLLREVLASHDSVVPLDARQADFV QVLSCVLDPLLMQCTVSASNLGTADMATFMVNSLYMMKTTLALF EFTDRRLEMLQFQIEAHLDTLINEQASYVLTTRVGLSYIYNTVQQ HKPEQGS LANMPNLD SVTLKAAMVQFDRLSAPDNLLIPQLNFI LSATVKEQIVKQSTELVCRAVEVYAAVMNP INEYKDPENILHR SPQQVQTLLS
6330	1151	333	FFYTYFYENKTFSRKMVAEKETLSLNKCPDKMPKRTKLLAQOPL PVHQPHSLVSEGFTVKAMMKNSVVRGPPAAGAFKERPTKPTAFR KPYERGDFPIALEHDSKGNKIAWKVEIEKLDYHHYLPFFDGLC EMTFPEFFARQGIHDMLEHGGNKILPVLPLQIIPKINALNLRN RQVICVTLKVQLHLVVSAMVGKALVPYRQILPVLNIFKNMNV NSGDGIDYSQQKRENIQDLIQTLEAFERYGGENAFINIKYVVP TYESCLLN
6331	3	495	QQQRVTRGRRRACASATFLEGCVDSLSPRTHAALLKVAQMVTL LIAFICVRSSLWNTNYSAYSFEVVTICDLIMILAFYLVHLFRFY RVLTICISWPLSELHLYLIGTLLLLIASIVAASKSYNQSGLVAGA IFGFMATFLCMASIWLSYKISCVTQSTDAV
6332	1	878	VTESNKFDLVSPFIPLLRERIYSNNQYARQFIISWILVLESVPDI NLLDYLPEILDGLFQILGDNGKEIRKMCVVLGEFLKEIKKNPS SVKFAEMANILVIHCQTDDLIQLTAMCWMREFIQLAGRVMLPY SSGILTAVLPCLAYDDRKKS I KEVANVCNQSMLKLVTPEDDELD ELRPGQRCAPTPDDALPKQEGTASGEWTPSLHLTSCRGPREPD VIGVALGPHLSNQDYFMYVTHITVAATQRSGSSGSPFPCRQDTG KLSTMATHSQLVKTGTGLEPRQAVSSSH
6333	3	1467	TRTPSEAEAGGESPOSCVSAHSDWTAGKPVSLAPLIPPRSAG QPLTFPSGRQPLRSLLVGMCSGSGRRSSLSPTMRPGTGAERG GLMMGHFGMHYAFMGMHMPQQRANMPPVPHGMMPQMMPPMGGPP MGQMPGMMSSVMPGMMMSHMSQASMQPALPPGVNSMDVAAGTAS

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			GAKSMWTEHKSPDGRITYYNTETKQSTWEKPDLLKTPAEQLLSK CPWKKEYKSDSGKPYYYNSQTKESRWAKPKELEDLEGYQNTIVAG SLITXSNLHAMIKAEESKQEECTTTSTAPVPTTEIPTTMTMA AAEAAAAVVAAAAAANASTSASNTVSGTVPVVPEP EVTSTIVATVDNENTVTITSTEEQAQLTSTPAIQDQSVESVNTG BETSKQETVADFTPKKEEESQPAKTTYTWNTKEEAKQAFKELL KEKRVPSNASWEQAMKMI INDPYSALAKLSEKKQAFNAYKVQT EKK
6334	17	644	GGNPSGRAAGFAAAAMPSSPLRVAVVCSSNQNRSMEAHNLISKR GFSVRSFGTGHVKLPAPADKPNVYDFKTTYDQMYNDLLRKDK ELYTQNGILHMLDRNKRIPRPERFQNCCKDLFDLITCEERVYD QVVEDLNSREQETCQPVHVNVVDIQNHEBATLGAFILICELCQC IQHTEDMENEIDELLQEFEEKSGRTTFLHTVCFY
6335	82	529	AARARPGVLCRRLGGAALGDQSRVMSYIPGPQPVTAHVQVEIH KLQGENLILGFSIGGGIDQDPSQNFSEDKTKGIYVTRVSEG GPAEILAGLQIGDKIMQVNGWDMTMVTHDQARKRLTKRSEEVRL LVTRQSLQKAVQQSMLS
6336	1003	438	HEPASKGRAEVGNMRLSVAAAIHSHGRVFRMRGLGPESRIHLLRN LLTGLVRHERIEAPWARVDEMRGYAEKLIDYGLGDTNERAMRM ADFWLTKDLIPKLQVLAPRYKDTGGYTRMLQIPNRS�DRAK MAVIEYKGNCLPPLPLPRRDSHLTLNLQQLQGLRQDLRQSQEAS NHSSHTAQTPGI
6337	76	524	EGIQMLSVPQDTPKPKGCAGCNRKIKDRYLLKALDKYWHEDCLKC ACCDRLGEVGSSTLYTKANLILCRDYLRLFGVTGNCAACSKLI PAFEMVMRAKDNVYHLDCFACQLCNQRCVGDKFFLKNMILCQ TDYBEGLMKEGYAPQVR
6338	66	1349	APNSESQTQGLPTPANLFWTRRANPDPTTMSATDRMGPKAVP GLRLALLLLGLGTPKSGVQGEGLDFPEYDGVDRVINVNAXNY KNVFKKYEVLALLYHEPPEDDKASQRFEMEELILELAAQVLED KGVGFGVLVDSEKDAAVAKKLGLTEVDSMYVFKGDEVIEYDGEFS ADTIVEFLLDVLEDPVELIEGERELQAFENIDEIKLIGYFKSK DSEHYKAFEDAAERFHPYIPFFATFDSKGAKLTLKLEIDFYE AFMEEPVTIPDKPNSSEETVNFVEEHRSTLRKLKPESMYETWE DDMDGIHIVAFEAEDPDGFEFLETLLKAVAQDNTENPDLSIWI DPDDFLLVVPYWEKTFDIDLSAPQIGVNVNTDADRLWMEMDDEE DLPSAELEDWLEDVLEGEINTEDDDDDDDDD
6339	246	1813	NRCDRGGGGQAEQAGQGCRTQAGPFGFGHSGFFSQGAMKAFH TFCVLLVFGSVSEAKFDDFEDEEDIVEYDNDFAEFEDVMEDS VTESQPRVITTEDDEDETVELEGQDENQEGDFEDADTQEGDTE SEPYDDEEFEGYEDKPDTSSSKNKDPITIVDPAHLQNSWESYY LETLMVTGLLAYIMNYITGKNKNSRLAQAWFNTHRELLESNFTL VGDDGTNKEATSTGKLNQENEHYINLWCSGRVCCGMLIQRLFL KRQDLNLVLRMMRPVSDQVQIKVTMNDMDTYVFAVGTRKAL VRLQKEMQDLSEFCSDKPKSGAKYGLPDSLAILSEMGVTDGMM DTKMVHFLTHYADKIESVHFSQDQFSGPKIMQEEGQPLKLPDTR TLLLTFFNVPGSGNTYPKOMEALLPLMNMVYISIDKAKKFRNLRE GKQKADKNRARBENFLKLTHVQRQEAQSRREEKKRAEKERIM NEEDPEKQRRLEEAALRREQKLEKKQMKMKQIKVKAM
6340	2	583	EACAHTLSCPAFARLGRARRRPWMSHRTSSTFRASRSFSSSSS SSSSTSSSASRALPAQDPPEKALSMFSDDFGSFMRPHSEPLAF PARPGGAGNIKTLGDAYEFAVDVDFSPEDIIVTTNNHIEVRA EKLAADGTVMNNFAHKCQLPEDVDPTSVTSALREDGSLTIRARR HPHTEHVQQTFRTEIKI
6341	2	645	KMAVLSAPGLRGFRILGLRSSVGPVQARGVHQSVATDGPSSSTQ PALPKARAVAPKPSRGEYVVAKLDDLVNWARSSSLWPMTFGLA CCAEMMHMAAPRYDMDFGVVFRASPRQSDVMIVAGTLTNKMA

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			PALRKVVDQMPPEPRVYVSMGSCANGGGYHYHSYSVVRGCDRIVP VDIYIPGCPPTAEALLYGILQLQQRKIKRERRLOIWIYRR
6342	2	1191	DPRVRAMLATLARVAALRKTCFLSGRGGGRGLWTGRFQSDMNNI KPLEGVKILDLTRVLGPPFATMNLGDLGAEVIKVERPGAGDDTR TWGPPFVGTESTYYSVNRNKKSIIVNIKDPKGVKIKBELAABC DVFFENYVPGKLSAMGLGYEDIDEIAPHIIYCSITGYGGTGPIS QRAGYDAVASAVSGLMHITGPEVACLSHIAANYLIGQKEAKRWG TAHGSIVPYQAFKTKDGYIVVGAGNNQQFATVCKILDPELIDN SKYKTNHLRVHNRKELIKILSERFEELTSKWLYLFEAGSGVPYV PINNMKNVFAEPQVLHNLGLVMEHEHTVGKISVPGPAVRYSKFK MSEARPPFLGQHTTHILKEVLRVDDRAIGELLSAGVVDQHEH GTAMVSDDELNLLVIVVDANPIWQKQALKESQFTLSKCIDAV MVLGNSHLMNRNKNLAVIASHIQESRFLYPGKNGRLGDFFGDP GNPPEFNPSGSKDGYELLSANEVIVEIKDLMTKSDIKGQHT ETLLAGSLAKALCYIHRMNEKVDNQEMKSRILVKAEDSALQ YMNFMNVIFAAQKONILIDACVLDSDSLQQAACDITGGLYLKV PQMPSSLQYLLWVFLPDQDQSRQLILPPPVHVDYRAACFCHRN LIEIGYVCSVCLSIFCNFSPICTTCTAFKISLPVLKAKKKKLV VSA
6343	2	936	TMPTATLGNLRGYGMASPGLAAPSLTPPQLATPNLQQFFPQATR QSLGPPPPVGPMPNPSQFNLSGRNPQKQARTSSSTPNRKDSSS QTMPEVDKSDPPEGSEAAEPFRMDTPEDQDLPPCPEDIAKEKRT PAPEPEPCEASELPAKRLRSSEEPTEKEPPGQLQVKAQOQARM VPKQTQTPDLLPEALEAQLPRFQPRVLQVQVQVQVQVQVQVQV TDTQVQPKLQQAQTQTSPEHLVLQKQVQVQVQVQVQVQVQV PQV LQLOKQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQV PHTQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQV VGTQVSMEEIQNESACGLDVGECENRAREMPGVWAGGSLKVTI LQSSDSRAFSTVPLTPVPRPSDSVSSTPAATSTPSKQALQFFCY ICKASCSSQVEFQDHMSEFQHQRLGEIQHMSQACLLSLLPVPR DVLETEDEEPPRRWCNTCQLYMGDLIOHRRRTQDHKIAQSLR PFCTVCNRYFKTPRKFEHVKSQGHKDKAKELKSLEKEIAGQDE DHFITVDVAGCFEGDEEEEDDEDEEEIEVEEELCKQVRSRDIS REEWKGSSETYSPTAYGVDFLVPVMGYICRICHKFYHSNSGAQL SHCKSLGHFENLQKYKAKNPSPTTRPVSRRCAINARNALTALF TSSGRPPSPQNTQDKTPSKVTARPSQPPLPRRSTRLKT
6344	2508	147	PRVRTKLILLVNDKKRYERVGGGPKRLGRDVEMEEMIEQLQEKV HELEKQNDTLKNRLISAKQQLQTQGYRQTFYNNVQSRINTGRRK ANENAGLQECPRKGIKFQDADVAETPHPMFTKYGNSLLEEARGE IRNLENVISQSRGQIEELEHLAEILKTQLRRKENEIELSLLQLR EQQATDQRSNIRDNVEMIKLHKQLVEKSNALSAMEGKFIQLEK QRTLKISHDALMANGDELNMQLKEQRLKCCSLEKQLHSMKFSER RIEELQDRINDLEKERELLKENYDKLYDSAFSAHEEQWKLKEQ QLKVQIAQLETAALKSDLTDKTEILDRLKTERDQNEKLVQENREL QLQYLEQKQQLDELKKRIKLYNQENDINADELSEALLLIKAQKE QKNGDLSFLVKVDSEINKDLERSMRELQATHAETVQELEKTRNM LIMQHINKNDYQMEVEAVTRKMENLQDQYELKVEQVHLLDIRA ARIHKLQEAQLKDIAYGTKQYKFKPEIMPDDSVDEFDETIIHLERG ENLFEIHKINKVTFSSSEVLQASGDKEPVTFCTYAFYDFELQTPV VRGLHPEYNFTSQYLVHVNDFLQYIQKNTITLVEHQAYSTEBE TIAACQLKFHEILEKSGRIFCTASLIGTKGDI PNFGTVVEYWFRL RVPMQDAIRLYRERAKALGYITSNFKGFEHMQSLSQQAQKTAQL SSTDSTDGNLNLHITIRCCNHLQSRASHLQPHPYVYVYKFFDFA DHDTAIPSSNDPQDDHMYFPVPMNMDLDRLKSESLSFYVFD DSDTQENIYIGKVNPLISLAHDCISGIFELTDHQKHPAGTIH
6345	2	3483	

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			VILKWKFAFLPPSGSITTEDLGNFIRSEEFVQRLPPASSVST LVLAAPRPKPRQRLTPVDKKVSFVDIMPHQSDVSQEGSVDEVKEN TEKMQQGGKDDVSLSEGQLAEQSLASSEDETEITEDLEPEVEED MSASDSDDCIIPGPISKNIKQPKSEKIRIETIALSLNDSQVTMD TIQRLFVECRFYSLPAEETPVSLPKPKSGQWVYVYNSNVIYVDD ENNAKARDILKAILKQKQEMPNSRLRFTTVSDPPDEQDLECED GVAHVDLADMFOEGRDLIBQNDIVDFDARADGEGIGKLRVTVEAL HALQSVYKQYRDDLEA
6346	2921	533	QDRRLRLRLQKTCQPTSTMSGSHTPACGPFSAITPSIWPQETL AKYTQKEESAEPFYVDFGFRVYKEEGDEPGSSLLANSPLME DAPQRLRWQAHLFTTHNDVGDLTWDKIAVSLPRSEKLRSLVLA GIPHGMRPQLWMRLSGALQKKRNSLSYREIVKNSNDETIAAK QIEKDLLRTMPSNACFASMGSGIVPRLRRVLRALAWLYPEIGYC QGTGMVAACLLLFLEEDAFWMMSAI IEDLLPASVYSTTLTGVO TDQVLRHLIVQYLPRLDKLLQEHDI ELSLITLHWFLTAFASV DIKLLRLRIWDLFFYEGSRVLFQLTGLMLHLKEELIQSENSASI FNTLSDI PSQMEDAELLGVMRLAGSLTDVAVETQRRKHLAYL IADQGQLLGAGTLTNLSQVVRRTQRRKSTITALLFGEDDLEAL KAKNIKQTELVDLREAILRVARHFQCTDPKNCVSVSRQLPGLL PNTALTPTPLVGLYSLWQELTPDYSMESHQRDHENYVACSRSH RRRAKALLDFERHDDDELGFRKNDIITIVSQKDEHCWVGEINGL RGWFFPAKFVEVLDERSEKEYS IAGDDSVTEGVTDLVRGTLCPALK ALFEHGLKKPSLLGGACHPWLFI EEAAGREVERDFASVYSRLVL CKTFRLEDGKVLTPPELLYRAVQSVNVTHDAVHAQMDVKLRSL ICVGLNEQVLHLWLEVLCSLPTVEKWPQWSFLRSPGWVQIKC ELRVLCFAFSLSQDWELPAKREAQQPLKEGVRDMLVKHHLFSW DVDG
6347	2921	533	QDRRLRLRLQKTCQPTSTMSGSHTPACGPFSAITPSIWPQETL AKYTQKEESAEPFYVDFGFRVYKEEGDEPGSSLLANSPLME DAPQRLRWQAHLFTTHNDVGDLTWDKIAVSLPRSEKLRSLVLA GIPHGMRPQLWMRLSGALQKKRNSLSYREIVKNSNDETIAAK QIEKDLLRTMPSNACFASMGSGIVPRLRRVLRALAWLYPEIGYC QGTGMVAACLLLFLEEDAFWMMSAI IEDLLPASVYSTTLTGVO TDQVLRHLIVQYLPRLDKLLQEHDI ELSLITLHWFLTAFASV DIKLLRLRIWDLFFYEGSRVLFQLTGLMLHLKEELIQSENSASI FNTLSDI PSQMEDAELLGVMRLAGSLTDVAVETQRRKHLAYL IADQGQLLGAGTLTNLSQVVRRTQRRKSTITALLFGEDDLEAL KAKNIKQTELVDLREAILRVARHFQCTDPKNCVSVSRQLPGLL PNTALTPTPLVGLYSLWQELTPDYSMESHQRDHENYVACSRSH RRRAKALLDFERHDDDELGFRKNDIITIVSQKDEHCWVGEINGL RGWFFPAKFVEVLDERSEKEYS IAGDDSVTEGVTDLVRGTLCPALK ALFEHGLKKPSLLGGACHPWLFI EEAAGREVERDFASVYSRLVL CKTFRLEDGKVLTPPELLYRAVQSVNVTHDAVHAQMDVKLRSL ICVGLNEQVLHLWLEVLCSLPTVEKWPQWSFLRSPGWVQIKC ELRVLCFAFSLSQDWELPAKREAQQPLKEGVRDMLVKHHLFSW DVDG
6348	3	3679	AGAECFVTLACFLAKQONKYKYECKDLIKSMLRNLQFKKE KLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDASRLN EHLQALLTPDEPDKSQGGDLQELAEGRCLAQHLVQKLSPENDN DDEDVQVEVAEKVQKSSSPREMQKAEKEVPEDSLEECITCS NSHGFCDSNQPHKNIKITFEEDENVSTLVVDRESSHDECQDALN ILPVPPTSSATNVSMVVSAGPLSGEKAANILEINEKLRPQLA EKKQQFRNLKECFLTQLACFLANQONKYKYECKDLIKFMLRN ERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGR DASRLNEHLQALLTPDEPDKSQGGDLQELAEGRCLAQHLVQK LSPENDNDDDEDVQVEVAEKVQKSSAPREMPKAEKEVPEDSLE

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			<p>ECAITCSNSHGPDYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW EDVAVHIIIPENESDDEEEEEKGPVSPRNLESEEEFVPQESWDEG YSTLSIPPEMLASYKSYSSTFHSLQEQVCMVDIGRHRWDQVK KEDHEATGPRLSRELLDEKGPVQLQDSLDRCYSTPSGCLELTDS CQPYRSAFYVLEQQRVGLAVNMDIEIKYQVEEDQDPSCPRLSR ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE QYLGLALDVEDRIKKDQEEEDQGPCCPRLSRELLEVVPEVLQD SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIE KKGKGGKRRGRRSKKERRRRGRKEGEDQNPCCPRLSRELLDEKG PEVLQDSLDRCYSTPSGCLELTDSQPYRSAFYILEQQRVGLAV DMDEIEKYQVEEDQDPSCPRLSGELLDEKEPEVLQESLDRCYST TPGCCELTDSQPYRSAFYILEQQRVGLAVDMDEIEKYQVEE DQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ PYSSAVYSLEEQLGLALDVEDRIKKDQEEEDQGPCCPRLSREL LEVVPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH VGFSLDVGEIEKKGKGGKRRGRRSKKERRRRGRKEGEDQNPCCP RLNSMLMEVEEPEVLQDSLDRCYSTPSMYFELPDSFQHYRSVVFY SFEEHISFALYVDNRFFTLTVTSLHLVFMGVIFPQ</p>
6349	3	3679	<p>AGAEKCFVTLACFLAKQNNKYKYECKDLIKSMLRNELQFKEE KLAELQKQAEELRQYKVLVHSQERELTQREKLREGRDASRSLN EHLQALLTPDEPKSQGQDLQEQLAEGCRLAQHLVQKLSPENDN DDEEDVQVEVAEKVKSSSPREMKAEEKVPEPDSLEECATCS NSHGPDYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW ILPVPGPTSSATNVSMVVSAGPLSGEKAANILEINEKLRLPQLA EKKQGFRLNLEKCFLTQACFLANQNNKYKYECKDLIKFMLRN ERQFKEEKLAELQKQAEELRQYKVLVHSQERELTQREKLREGR DASRSLNEHLQALLTPDEPKSQGQDLQEQLAEGCRLAQHLVQK LSPENDNDDDEDVQVEVAEKVKSSAPREMPKAEKEVPEPDSLE ECAITCSNSHGPDYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW EDVAVHIIIPENESDDEEEEEKGPVSPRNLESEEEFVPQESWDEG YSTLSIPPEMLASYKSYSSTFHSLQEQVCMVDIGRHRWDQVK KEDHEATGPRLSRELLDEKGPVQLQDSLDRCYSTPSGCLELTDS CQPYRSAFYVLEQQRVGLAVNMDIEIKYQVEEDQDPSCPRLSR ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE QYLGLALDVEDRIKKDQEEEDQGPCCPRLSRELLEVVPEVLQD SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIE KKGKGGKRRGRRSKKERRRRGRKEGEDQNPCCPRLSRELLDEKG PEVLQDSLDRCYSTPSGCLELTDSQPYRSAFYILEQQRVGLAV DMDEIEKYQVEEDQDPSCPRLSGELLDEKEPEVLQESLDRCYST TPGCCELTDSQPYRSAFYILEQQRVGLAVDMDEIEKYQVEE DQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ PYSSAVYSLEEQLGLALDVEDRIKKDQEEEDQGPCCPRLSREL LEVVPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH VGFSLDVGEIEKKGKGGKRRGRRSKKERRRRGRKEGEDQNPCCP RLNSMLMEVEEPEVLQDSLDRCYSTPSMYFELPDSFQHYRSVVFY SFEEHISFALYVDNRFFTLTVTSLHLVFMGVIFPQ</p>
6350	3	3679	<p>AGAEKCFVTLACFLAKQNNKYKYECKDLIKSMLRNELQFKEE KLAELQKQAEELRQYKVLVHSQERELTQREKLREGRDASRSLN EHLQALLTPDEPKSQGQDLQEQLAEGCRLAQHLVQKLSPENDN DDEEDVQVEVAEKVKSSSPREMKAEEKVPEPDSLEECATCS NSHGPDYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW ILPVPGPTSSATNVSMVVSAGPLSGEKAANILEINEKLRLPQLA EKKQGFRLNLEKCFLTQACFLANQNNKYKYECKDLIKFMLRN ERQFKEEKLAELQKQAEELRQYKVLVHSQERELTQREKLREGR DASRSLNEHLQALLTPDEPKSQGQDLQEQLAEGCRLAQHLVQK LSPENDNDDDEDVQVEVAEKVKSSAPREMPKAEKEVPEPDSLE</p>

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			<p>ECAITCSNSHGPDYDSNQPHRKTITFEEDKVDSTLIGSSSHVEW EDVAVHIIIPENESDDEEEEEKGPVSPRNQSEEEVEVPQESWDEG YSTLSIPPEMLASYKYSSTFHSLEEQQVCMAVDIGRHRWDQVK KEDHEATGPRLSRELLDEKGPVLDQSLDRCYSTPSCGLELTD CQPYRSAPYVLEBQQRVGLAVNMDEIEKYQEVEEDQDPSCPLSR ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE QYLGLALVDVRIKKDQEEEDQGGPPCPLSRELLLEVVEPEVLQD SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGPSLDVGEIE KKGKGGKRRGRSKKERRRRGRKEGEDQNPCCPLSRELLDEKG FEVLQDSLDRCYSTPSGCLELTDSCQPYRSAPYILEQQRVGLAV DMDEIEKYQEVEEDQDPSCPLSGELLDEKEPEVLQESLDRCYST TPGCLELTDSCQPYRSAPYILEQQRVGLAVDMDEIEKYQEVEE DQDPSCPLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ PYSSAVYSLEEQLGLALVDVRIKKDQEEEDQGGPPCPLSRELL LEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH VGPSLDVGEIEKKGGKRRGRSKKERRRRGRKEGEDQNPCCP RLNSMLMEVEEPEVLQDSLDCYSTPSMYFELPDSFQHYRSVVFY SFEEHISFALYVDNRFFTLTVTSLHLVFMGVIFPQ</p>
6351	1291	319	<p>REARRRTERSQGRMLVVEVANGRSVLVGAFAVQALRRLRGVGG RTVGALPRGPRQNSRLGLPLLMPEEARLLAEIGAVTLVSAPRP DSRHHGLALTSFKRQEEESFQEQSALAAEARETRQELLEKITE GQAACKQKLEQASGASSSQEAGSSQAQKEDETSQDQASGEQEA GPSSSQAGPSNGVAPLPRSALLVQLATARPVPVKARPLDWRVQS KDWPAGRAPAHELRYSIYRDLWERGFFLSAAGKFGGDFLVYPGD PLRFHAHYIAQCWAPEDTIPLODLVAAGRLGTSVRKTLTLLCSPQ PDGKVVTSLQWASLQ</p>
6352	235	923	<p>WSEWLSPCHAACKKGLSMLRITMKTRAISSLAADATFVQGRSAP AMARSLVHDTVFYCLSVYQVKISPTPQLGAASSAEGHVGGGAPG LMGNMNPPEGVNHENGMNRDGGMIPEGGGGNQEPQQPQPPPEE PAQAAMEGPPENMQPRTRRTKFTLLQVEELESVFRHTQYPDVP TRRELAENLGVTEDEKVRVWFKNKRARCRRHQRELMLANELRADP DDCVYIVVD</p>
6353	65	672	<p>RFAGAGATPEARARPPDVQAAEEEEKEMDLPDSASRVFCGRILSM VNTDDVNAIILAQKNMLDRFEKTINEMLLNFNNLSSARLQOMSER FLHHTRTLVEMKRDLDSIFRIRITLKGKLARQHPAFSHIPEAS FLEEDEDPIPPSTTTTITATSEQSTGSCDTSPTVSPSLSPGF DLSHVQPGSPAINGRSQTDDEEMTGE</p>
6354	965	510	<p>PSLRPMEPTRDCPLFGGAFSAI LPMGAIDVSDLRPVPDNQEVFC HPVTDQSLIVELLEQLAHVRGEAAARYHFEDVGGVQGARAVHVE SVQPLSLENLALRGRCQEAWVLSGKQQAIAKENQQVAKDVTLLHQA LLRLPQYQTDLLLTFFNQPP</p>
6355	158	1662	<p>RGSSAARFGSGLRGAMIRRVLP HGMGRGLLRRPGTRRGGSFSD WDGVSEI KKKIKS ILPGRSCDLLQDTSHPPEHSDVIVVGGGV LGLSVAYNLKKLESRRGAIRVLVVERDHTYSQASTGLSVGGICQ QFSLPENIQLSLSFASFLRNINEYLAVVDAPPLDLRFNPSGYLL LASEKDAAAMESNVKVRQEGAKVSLMSPDQLRNKFPWINTGCV ALASYGMEDEGWFDPWCLLQGLRRKQVSLGLVFCQGEVTRFVSS SQRMILTDDKAVVLKRIHEVHVKMDRSLEYQFVECAIVINAAGA WSAQIAALAGVGGPPGTQGTLPVEPRKRYVYVWHCPQGPGL ETPLVADTSGAYFRREGLSNYLGGRSPTEQEEPPANLEVDHD FFQDKVWPHLALRVPAFETLKVQSAWAGYDYNTFDQNGVVGPH PLVVNMYFATGFSGHGLQAPGIGRAVAEMVLKGRFQTDLSPP LFTRFYLGKIQENNI</p>
6356	354	633	<p>TGLTSSCLPLQVMMTKRTKDMGKFSSVTSTIDEEEEIEAREV ADSYAQNAKVIKQLERKGMSSKRLQELAELEAKAKMGTGLID NQFK</p>

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6357	2	915	GLLRNMALLVRVLRNQTSTISQWVPVCSRLIPVSPTQCGGDRALS RTSQWPQMSQSQACGGSEQIPGIDIQLNRYHTTRKLSTTKDSP QPVEEKVGAFTKIIBAMGFTGPLKYSKWKIKIAALRMYTSCVEK TDFEEFFLRQMPDFTNSWFLITLLHVWMLVRMKQEGRSCKYM CRIIVHFHMFEDVQQRGRVMGVNPIYLKKNMILMTNHFYAAILGY DEGILSDDHGLAAALWRTTFNRKCEDPRHLELLVEYVRKQIYQL DSMNGEDLLLTGEVSWRPLVEKNPQSILKPHSPTYNDEGL
6358	2009	1040	ASDALHSLAPVLRLLSSRSARPATMTQATSFADFLAGGIAA AISKTAVAPIERVKLLQVHASKQIAADKQYKGIIVDCIVRIK EQGVLSFWRGNLANVIRYFPTQALNFAFKDYKQIFLGGVDKHT QFWRYFAGNLASGGAAGATSLCFVYPLDFARTLAADVKGSGTE REFRGLGDCLVKITKSDGIRGLYQGFVSQVQGIITYRAAYFGVY DTAKGMLPDPKNTIIVSWMLAQTVTAVAGVVSYPEDTVRRMM MQSGRKADIMYGTVDWCWKIFRDEGGKAFKGAWSNVLRGMG GAFVLVLYDELKKVI
6359	98	1086	VCRQEEKMKEDCLPSSHVPISDSKSIQKSELLGLLKTNYCYHE GKSFQLRHREEEGTLIEGLLNIAWGLRRPRLQMQDDREQVHL PSTSWMPRRPSCPLKEPSPQNGNIQAQGPSIQPVHKAESSTDS GPLEEAEEAPQLMRTKSDASCMSQRRPKCRAPGEAQRIIRHRS INGHFYNHKTSTVFTPAYGSVTINVRVNSTMTTLQVLTLLNKFV EDGPSEFALYIVHESGERTKLKDCYEPLISRIILHGPCCKIARIF LMEADLGVEVPHEVAQYIKFEMPVLDSFVEKLKEEEREIKILT MKFQALRLTMLQRLQELVEAK
6360	1	345	GTRGAVPSTLEEVVLPFRSCRWFVHISGTTMSKVSFKITLTSDF RLPYKVLVSPESTPFTAVLKFAAEEFKVPAATSAITNDGIGIN PAQTAGNVFLKHGSELRIIPRDRVGS
6361	615	158	RPGLQLOHICALAPQAGNRRCRFHGRHALTRSTHRGKPMSTMQ FKDTLNTPLPDSPPVAVPLGAPIAVASTLSVEHNDGVEGTIWA APGRWRRQITSQEFCHFIQGRCTFTPDGETLHIQAGDALMLPA NSTGIWDIQETVRKTYVLIL
6362	350	1576	TTMDGSHSALKLOQLPPTSSSSAVSEASFSYKENLIGALLAIF GHLVVSIALNLQKYCHIRLAGSKDPRAVFKTKTWLGLFLMLLG ELGVFASVAFAPLSLIVPLSAVSIVASAIIGIIFIXEKWKPKDF LRRVLSFVGCGLAVVGTYLLVTFAPNSHEKMTGENVTRHLVSV PFLLYMLVEIILFCLLLYFYKEKNANNIVVILLVALLGSMTVV TVKAVAGMLVLSIQGNLQLDYPIFYVMFVCMVATAVYQAFLSQ ASQMYDSSSLIASVGYLSTTIAITAGAIYFLDFIGEDVLHICMF ALGCLIAFLGVFLITRNRKKIPFEPYISMDAMPGMQNMHDKGM TVQPELKASFSYGALENNNDNISEIYAPATLPVMQEEHGSRSASG VPYRVLEHTKKE
6363	21	1201	RRTRLGSSFFRRRDSSAMESYDVIANQPVVINDNGSGVIKAGFAG DQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEHRGLLSI RYPMEHGIVKDWNDMERIWQYVYSKDQLQTFSEHPVLLTEAPL NPRKNRERAAEVFFETFNVPALFISMQAVLSLYATGRTTGVVLD SGDGVTHAVPIYEGFAMPHSIMRIDIAGRDVSRFLRLYLKKEGY DFHSSSEFEIVKAIKERACYLSINPQKDETLETEKAQYLLPDGS TIEIGPSRFRAPELLFRPDLIGESEGEIHEVLVFAIQSDMDLR RTLFSNIVLGGSTLFGKFGDRLLSEVKKLAPKDVKIRISAPQE RLYSTWIGGSILASLDTFKMMVWSKKEYEBDGARSIRKTF
6364	21	1201	RRTRLGSSFFRRRDSSAMESYDVIANQPVVINDNGSGVIKAGFAG DQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEHRGLLSI RYPMEHGIVKDWNDMERIWQYVYSKDQLQTFSEHPVLLTEAPL NPRKNRERAAEVFFETFNVPALFISMQAVLSLYATGRTTGVVLD SGDGVTHAVPIYEGFAMPHSIMRIDIAGRDVSRFLRLYLKKEGY DFHSSSEFEIVKAIKERACYLSINPQKDETLETEKAQYLLPDGS TIEIGPSRFRAPELLFRPDLIGESEGEIHEVLVFAIQSDMDLR

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6365	234	1989	<p>RTLFSNIVLSGGSTLFGGFGDRLLSEVKKLAPKDVKIRISAPQE RLYSTWIGGSILASLDTFKKMWVSKKEYEEDGARSIRHRTF</p> <p>KKHSRASCARAQAAGPSREREVHSRFRSGLRRLGESNSGCC TM ASMTLAFDEYGRPFLLIKDQDRKSRLMGLEALKSHIMAAKAVA NTMRTSLGPNGLDKMMVDKGDVTVTNDGATILSMDVDHQAIAK LMVELSKSQDDEIGDGTGTVVVLGALLLEAEQLDRGIHPRI ADGYEQAAARVAIEHLDKISDSVLVDIKDTEPLIQAKTTLGSKV VNSCHROMAEIAVNAVLTVADMERRDVFELIKVEGKVGGRLED TKLIKGVIVDKDFSHQMPKKVEDAKIAITCPEPPPKPKTKHK LDVTSVEDYKALQKYRKEKFEEMIQQIKETGANLAICQWGFDD ANHLLQLNNLPAVRWVGGEPELIIATATGGRIVPRFSELTAEKL GFAGLVQESIFGTTKDKMLVIEQCKNSRAVTIFIRGGNKMIIE AKRSLHDALCVIRNLIRDNRVYGGGAAEISCALAVSQEADKCP TLEQYAMRAFADALEVIMALSENSGMNPIQTMTEVRARQVKEM NPALGIDCLHKGTNDMKQOHVETLIGKKQIISLATQVMRMLK IDDIRKPGESSE</p>
6366	257	1898	<p>GNKEGAHSSTFWLLSIFLGAVAMLCKEQGITVLGLNAVFDILV IGKFNVLIVQKVLHDKSLENLGLMRNGLLFRMTLLTSGGAG MLYVRWRIMGTGPPAFTEVDNPASPADSMLVRAVNYNYYSINA WLLCPWWLCFDWSMGCIPLIKISISDWRVIALAALWFCLIGLIC QALCESDGHKKRIITLGLGLVIFPLPASNLFRVGVFVAERVL YLPSVGYCVLLTFGFGALS KHTKKKLLIAAVVLGILFINTLRV LRSGEWRSEEQLFRSALSVCPLNAKVHYNIGKNLADKGNQTAI RYREAVRLNPKYVHAMNNLGNILKERNELQEAELLSLAVQIQ PDFAAAWMNLGIVQNSLKRFEAAEQSYRTAKHRRKYPDCYYNL GRLYADLNRHVDALNAWRNATVLPKPEHSLAWNMIILLDNTGNL AQAEAVGREALELIPNDHSLMFLANVLGKSQKYKESSEALPLKA IKANPNAAASYHGNLAVLYHRWGHLLDAKKHYEISLQDPTASGT KENYGLLRKLELMQKKAV</p>
6367	287	1934	<p>SIGFPVMLVLSILLYTCMFQDSVAFEDVAVSFTQEEWALLDPS QKNLYRDVMQETFKNLTSVGKTKVQNIIDEYKNPRNLSLMRE KLCESKESHHCESFNQIADDMLNRKTLPGITPCSSVCGEVGT GHSSLNTHIRADTGHKSSEYQYGENPYRNKECKKAFSYLDSFQ SHDKACTKEKPYDGKECTETFIHSHCIQRHRVMHSGDGPYKCF CGKAFYFLNLCLIHERIHTGVKPYKCKQCGKAFTRSTTLPVHER THTGVDNADECKECGNAPSPSEIRRHRKRSHTGEKPYECKQCGKV FISFSSIYHKMTHTGEKPYECKQCGKAFRCGSHLQKHGRTHTG EKPYECCRQCGKAFRCSTDLQRHEKHTHTEDKPYGCKQCGKFRCA SOLQIHERTHSGEKPHECKECGKVFYFSSLRHERTHHTGEKPH ECKQCGKAFRYFSSLIHERTHHTGDKPYECKVCGKAFTCSSSIR YHERTHHTGEKPYECKHCGKAFISNYIRYHERTHHTGEKPYQCKQC GKAFIRASSCREHERTHHTNR</p>
6368	1	327	<p>RPVPAKLNPRSWPRTAGALPLRPPLTMVAFHDEVEIEDFQYDE DSTYFYPCPCGDNFSITKEDLENGEDVATCPCSSLIKVIYDK DQFVCGETVPAPSANKELVKC</p>
6369	1	1745	<p>AGCCRDTRFPTFRGPGSLCHNFCRSAACTVTRTIHSGSPREDTGT PRSREMMFQDSVAFEDVAVSFTQEEWALLDPSQKNLYRDVMQET FKNLTSVGKTKVQNIIDEYKNPRNLSLMREKLCESKESHHC ESFNQIADDMLNRKTLPGITPCSSVCGEVGTGHSSLNTHIRAD TGHKSSEYQYGENPYRNKECKKAFSYLDSFQSHDKACTKEKPY DGKECTETFIHSHCIQRHRVMHSGDGPYKCFCGKAFYFLNLCL IHERIHTGVKPYKCKQCGKAFTRSTTLPVHERTHHTGVDNADECKE CGNAPSPSEIRRHRKRSHTGEKPYECKQCGKVFISFSSIYHKM THTGKPYECKQCGKAFRCGSHLQKHGRTHHTGEKPYECCRQCGKA FRCTSDLQRHEKHTHTEDKPYGCKQCGKGFRCASQLQIHERTHSG EKPHECKECGKVFYFSSLRHERTHHTGEKPYECKQCGKAFRYF</p>

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			SSLHIHERHTHTGDKPYECKVCGKAPTCSSTRYHERHTHTGKPYECKHCGKAFISNYIRYHERHTHTGKPKYQCKQCGKAFIRASSCREHERHTTNR
6370	1711	329	FVLSEQRRLRTERTPRSPGLRGAAAAGARTAGAGLLRLLGCGALVGGRLRPVTMTTPANAQNAKTWELSLYELHRTPOEAIMDGTEDIAVSPRSLHSELMCPICLDMKNTMTTKCLHRFCSDCIVTALRSGNKECPTCRKKLVSKRSLRPDPNFDALISKIYPSREYEYAHQDRVLIRLSRLHNQALSSSIEEGLRMOAMHRAQRVRRPIPGSDQTTMSGGEGEPGEGEDGEDVSSDSAPDSAPGPAPKRRPGGGAGGSSVGTGGGGTGGVGGGAGSEDSGDRGGTLGGGTLGPPSPPGAPSPEPFGGEIELVFRPHLLVEKGEYCQTRYVKTGNATVDHLSKYLALRIALERRQQQEAGEPGGGGGASDTGGPDGCGEGGGAGGGDGPEEPALPSLEGVSEKQYTIYIAPGGGAFTTLNGSLTLELVNEKFWKVSRLPLELCYAPT KDPK
6371	3	288	GVANMSTAMNFGTKSFQPRPPDKGSFPLDHLGECKSFKEKFMKCLHNNNFENALCRKESKEYLECRMERKMLQEPLEKLGFGDLTSGKSEAKK
6372	2141	625	RVSATASEGKAERYKKLEDLLEKSFSLVKMPSLQPVVMCMVKHLPKVPEKKLKVLMADKELYRACAVEVRRQIWQDNQALFGDEVSPLLKQYILEKESALFSTELSVLHNNFSPSPKTRRQGEVVQRLTRMVGKNVKLYDMVLQFLRTLFLTRNVHYCTLRALLMSLHDLVDVEICTVDPCHKFTWCLDACIRERFVDSKRARELQGFLDGVKKQGEQVLGDLMSILCDPFAINTLALSTVRHLQELVGQETLPRDSPDLLLLRLRLALGQGANMIDISQVFKEPKMEVELITRFLPMLMSFLVDYTFNVQDKLPAAEEKAPVSYNTLPESFTKFLQEQRMACEVGLYVVLHITKQRNKVALLRLLPGLVETPGDLAFGDFLHLITGNLALADEFALEDFCSSLFDGFFLTASPRKENVHRHALRLLIHLHPRVAPSKLEALQKALEPTGQSGEAVKELYSQLEKLEQLDHRKPSPAQAETPALELPLPSVPAPAPL
6373	67	711	PSRAARASPARLJAMVSWIISRLVVLIFGTLFAYYSYKAVKSKDIKEYVKKMMYWIIFALFTTAETFTDIFLCWFFPYELKIAFVAWLLSPYTKGSSLLYRKVFVHTLSSKEKEIDDCLVQAKDRSYDALVHFQKRGVNAATAAAMAAKGGQALSERLSFSMQDLTTIRGDGAPAFSGPPPPGSGRSGKXGQPKMSRSASESASSSGTA
6374	535	2105	HKLFCSYISTSEFFPSSTRHSCPTHTFCNYTSSTIFLSSTRDHS CPHTHTFCNYTSSTIFLSSTRDHSCTHTSCNYTSSTIFLSSTRD HSCPTHTSCNYTSSTIFLSSTRDHSCTHTFCNYTPRPIIRLSSC CPABLQTEGSNGKKEVLSGFQVLEDTVLFPEGGGQDDRGITIN DISVLVRTRRGEQADHFTQTPLDPGSQVLVRVDWERRFDHMQH SQOHLITAVADHLFKLKTTSWELGRFRSAIELDTPSMTAEQVAA IEQSVNEKIRDRLPVNVRELSLDDPEVEQVSGRGLPDDHAGPIR VVNIIEGVDSNMCCGTHVSNLSLDQVIKILGTEKGNKNTNLIFL SGNRVLKWMERSHGTEKALTALLKCGAEDHVEAVKKIQNSTKIL QKNNLNLRLDLAVHIAHSLRNSPDWGGVVILHRKEGDSEFMNII ANEIGSEETLLFLTVDGDEKGGGLFLLAGPPASVETLGPVAVEL EKGAGKKGRFQGGKATKMSRRMEAOALLQDYISTQSAKE
6375	1	1535	AIMAAATRPVRLPEAGCEGRERCWNPSSRSRSHSGEGGLAASRTCPGRPRRPGQVVRGPTMLVTAYLAFVGLLASCLGLELSRCRAKPPGRACSNPFLRFQDFYQVYFLAALADWLQAPYLYKLYQHYYFLEGQIAILYVGLASTVLFGLVASSLVDWLGRKNKSCVLFSLTYSLCCLTKLSQDYFVLLVGRALGGLSTALLFSAFEAWYIHEHVERHDFPAEWIPATFARAFAFNHVLAVVAGVAAEAVASWIGLGPVAPFVAIPLLALAGALALRNNGENYDRQRAFRTACAGGLRCLLSDRVLLGTIQALFESVIFIFVFLWTPVLDPHGAPLGIIFSSFMAASLLGSSLYRIATSKRYHLQPMHLLSLAVLIVVFSLFMLTFTSTSPGQESPVESFIAFLLIELACGLYFPPMSFLRRKVIPETEQAQVLN

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			WFRVPLHSLACLGLLVLHDSRKTGTRNMFSCSAVMVMALLAV VGLFTVVRHDAELRVPSPTTEEPYAPEL
6376	380	1437	ISSTDIDHYRFSFLVNSKMPSKESWSGRKTNRAAVHKSQEGRQ QDLIAALGMKLGSPKSSVTIWQPLKLFAYSQSLTSLVRRATLKE NEQIPKYEKIHNFKVHTFRGPHWCEYCANFMWGLIAQGVKCADC GLNVHKQCSKMPVNDCKPDLKHVKVYSCDLTLVKAHTTKRPM VDMCIREIESRGLNSEGLYRVSGFSDLIEDVKMAFDRDGEKAD ISVMYEDINIITGALKLYFRDLPIPLITYDAYPKPIESAKIMD PDEQLETLHEALKLLPPAHCELTLYLMAHLKRVTLHEKENLMNA ENLGIVFGPTLMRSPELDAMAALNDIRYQRLVVELLIKNEIDILF
6377	2311	1845	SRIRRRSSRRPREPPGPSRRRRRRRPRTMPSEKTFKQRTTFF QRVEDVRLIREQHPTKIPVIERYKGEKQLPVLDTKFLVDPHV NMSELKIRRRRLQLNANQAFFLLVNGHSMVSVSTPISEVYSE KDEDGFLYMYASQETFGMKLSV
6378	686	191	GAGPWAEAFPDGIGRRSRRARLPQYKRPGRVGGGDSGRRNMAVA DLALIPDVDDSDGVFKYVLRVHSAFPRSGAPAESKEIVRGYK WAEYHADIYKVSQGMQKQGCDCCECLGGGRISHQSQDKKHIVYG YSMAYGPAQHAISTEKIKAKYPDYEVTWANDGY
6379	35	378	BRAGSPSPSRAALRRCAPQRSQAPRWPDRAACRRSFQGSQGRAY LFNSVVNVGCGPAEERVLTLGLHAVADIYENCNTTLGWKYEHA FESSQYKEGKYIELAHMIKDNWD
6380	1414	462	PAVQQRGAGPPTGRGSGNMAFALTUVRHGETRPNKEKIIQQG GVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMTKQTMHGI LERSKFCKDMTVKYSRLRERKYGVVGGKALSELAMAKAAREE CPVFTPPGGETLDQVKMRGIDPFELCOLILKEADQKEQFSQGS PSNCLETSLAEIFPLGKNHSSKVNDSGIPGLAASVLVSHGAY MRSLEFDYFLTDLKCSLPATLSRSELSMTENTGMSLFIINFEEG REVKPTVQCICMNLQDHLNGLTENSIGLNLPSKSNHFEPLKGVF LALFTSLLC
6381	1668	218	AVVRAQSSRGFSAGWRPQAAAMNFSEVFKLSLLCKFSPDGK YLASCVQVRLVVRDNTLQILQLYTCLDQIQHIEWSADSLFTLC AMYKRGVLQVWSLEQPEWHCKIDEGSAGLVASCWSPDGRHILNT TEPHLRITVWSLCTKSVSYIKYPKACLGQITFTRDGRYMALAER RDCKDYVSIFVCSQDWQLLRHFDTDQDLTGIEWAPNGCVLAVMD TCLEYKILLYSLDGRLLSTYSAYEWSLGIKSVAVSPSSQFLAVG SYDGKVRILNHVTWKMITFEGHPAAINDPKIVVYKEAEKSPQLG LGCLSFPFPRAGAGPLPSSSESKYEIASVPVSLQTLKPVTDRANP KIGIGMLAFSPDSYFLATRNDNIPNAVWVDIQKLRLFAVLEQL SPVRAFQWDPQPRLAICTGGSRLYLWSPAGCMSVQVPGEGDFA VLSLCWHLSDSMALLSKDHFCLCFLETEAVVGTAACROLGGHT
6382	2	1062	FEEDERNLCLIAYPELKGHDGIVDIVDNSDCEPKSKLLRWTTNK KHHVLETEKTPKDWVRQHRKEEKMKSHKLEEFELKKSEVLYY TVEKKGNISSQLKHYNPWSMKCHQQQLQRMKENAKHRNQYKFIL LENLTSRYEVPVLDLKMGTROHGDDASEEKAANQIRKCCQSTS AVIGVRVCGMQVYQAGSQLMFMNKYHGRKLSVQGFKEALFPQF HNGRYLRRELLGPVLKKTTELKAVLERQESYRFYSSLLVIYDG KERPEVVLDSDAEDLEDLSEESADESAGAYAKPIGASSVDVRM IDFAHTTCRLYGEDTVVHEGQDAGYIFGLQSLDIVTEISEESG E
6383	3159	1061	SPAPGRPSPHGSQPAARAAAAPAMPSAKQSGKGGHGAASPSEK GAHPAAARPLAAPTAAACRSPSPGGAPASFPGRAPRSLASQP AARAAAAPAMPSAKQSGKGGHGAASPSEKGAHPSGGADDVAKK PPPAPQPPPPPPAPHQPHQPHQPHQPHQPHQPHQPHQPHQPHQ SSSSSASAAAAAASSASCSRLGRALNFLFYALVAAAAFSGWCVHHVLEEQQVRRSHQDFSRQREELGQGLQGVQKVSQQA TFGTFESILRSSQHKQDLTEKAVKQGESEVSRISEVLQKLQNEI

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			LKDLSDGIHVVDAREDFTSLENTVEERITELTKSINDNIAIF TEVQKRSQKEINDMKAKVASLESEGNKQDLKALKEAVKEIQTS AKSREWDMEALRSTLTQTMESDIYTEVRELVSLEKQEQAFKEAAD TERLALQALTEKLLRSEESVSRLPEEIRLEELRQLKSDSHGP KEDGGFRHSEAFALQKQSGGLDRLQHVEDGVLSMQVASARQT ESLESLLSKSQEHEQRLAALQGRLEGLGSSEADQDGLASTVRS GETQLVLYGDEVLELKRSGELPSTVESLQKVQEVHTLLSQDQA QAARLPQDFLDRLSSLDNLKASVSQVEADLKMRLTAVDLSLVAY SVKIETNENNLESAGLLDLDRLDLRFVVKVEKHEKV
6384	738	1904	IWEVPVCLTHLHLQQAQPLPPSSSINEEDADEANRAIGEK AAPDSGKKPKTPKTKQKQDNEPQKPVSAAYLFFRDTOAAIKGQ NPNATFGEVSQIVASMWDSLGEQKQVYKRTEAAKKEYLKALA AYRASLVSKAAAEABEAQTIRSVQQTLASTNLTSLLNLPLSQ HGTVSASPQTLLQSLPRSTAPKPLTMRPLMNQIVTSVTIAANMP SNIGAPLISSMGTMTVGSAPSTQVSPSVQTQQHQMQLQQQQQQ QQQQQQQQQQQQQQHMQHQQIQQQMQQQHQQHMQHQQHQQH LQQQINQQQLQQQLQQRLQLQQHMQHQSQSPSPROHSPVASQI TSPIPAIGSPQASQHQSQIQSQSTQTVLSQVSI
6385	2	1584	PRVRADVAAGAAQVVSAGMAKSNGENGFRAFAAGESLSGTRES LAQGPDAATDELSSLSGSDSEANGFAERRIDKFGFIVGSQGAEG ALEEVPLEVLQRRESKWLDMNNWDKWMKAKKKIRLCQKGIIP PSLRGRAWQYLSGGKVKLQONPGKFDDELMSPGDPKWLVDIER LHRQFFHEMFVSRGGHGQDLFRVLKAYTLRPEEGYCAQAP IAAVLLMHMPAEQAFWCLVQICEKYLPGYSEKLEAIQLDGEIL FSLQKVSPVAHKHLSRQKIDPLLYMTEWFMCAFSRTLPWSSVL RVWDMFFCEGVKIIFRVGLVLLKHALGSPKVKACQGGQYETIER LRLSPKIMQEAFLVQEVVELEPVTIEREHLIQLRRWQETRG BLQCRSPPRHGAAILDABGFRPALQPSPIRLPLDAPLPGS KAKPKPPKQAKQKQKQKQKQKQKQKQKQKQKQKQKQKQKQ PQHVPFKDSAPKDSAPQDLAPQVSAHRSQESLTSQESDITYL
6386	819	195	TVCGSFYLGIMQASRLKRELHMLATEPPPGITCWDQDKQMDLL RAQILGGANTPYEKGVFLEVIIPERYPFEPPIRFLPIYHFN IDSAGRICLDVLKLPKGAWRPSLNIAITVLTSLQLLMSEPNPDD PLMADISSEFKYNKPAFLKNARQWTEKHARQKQKQKQKQKQKQ PEAGDSRVHNSQKRRKASQLVGIEKKFHPDV
6387	1	662	PGPTHASADAWADAWAQPNMAMHNKAAPPQIPDTRRELAEVLR KQELAETLANLERQIYAFEGSYLEDTQMYGNIIRGWDRYLTNQK NSNSKNDRNRKFKEAERLFSKSSVTSAAAVSALAGVQDQLIEK REPGSGTESDTSDFHNQENEPSQEDPEDLDGVSQGVKPKQKAS STSSGSHHSHKRRKNKNRHSPPSGMFDYDFEIDLKLNKKPRADY
6388	1	662	PGPTHASADAWADAWAQPNMAMHNKAAPPQIPDTRRELAEVLR KQELAETLANLERQIYAFEGSYLEDTQMYGNIIRGWDRYLTNQK NSNSKNDRNRKFKEAERLFSKSSVTSAAAVSALAGVQDQLIEK REPGSGTESDTSDFHNQENEPSQEDPEDLDGVSQGVKPKQKAS STSSGSHHSHKRRKNKNRHSPPSGMFDYDFEIDLKLNKKPRADY
6389	1074	497	AEPGDRMAGHRLVLVLGDLHIPHRCNSLPKFKKLLVPGKIQHI LCTGNLCTKESYDYLKTLAGDVHIVRGDFDENLNYPEQKVTVG QFKIGLIHQVQIPWQDMASLALLQRFQDVIDILISGHTHKPEAF EHENKFYINPGSATGAYNALETNIIPSFVLMQDQASTVTVYVQ LIGDDVKVERIEYKPK
6390	158	535	GEERKEGRAPGKAFAPERNPAKMEKEETTRELLEPNWQSGSHG LTIARDDGQVQVETQNSPAARTGVVKEGQIVGATIIYFDNLQ SGEVTQLLNTMGHHTVGLKLRKGRDFFPSLGQTWDP
6391	5386	2897	VRWNSKTECYLSIQTQENFPANLNELVNCIVISSLVTTQRLKLA MSLLGSRNQLARAVLNPNMDFCTKDLLTTTSERIAYLDFNE DQKKAETAYAMVKHSPSVAKICLIHGPPGTGSKTIVGLLYRL

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			LTENQRKGHSDESNNAIKQNRVLVCAPSNAVDELMMKKIILEF KECKDKKNPLGNCGDINLVRGPEKINSSEVLKFSLDSQVNH MKKELPSHVQAMHKRKEFLDYQLDELSRQALCRGGREIQRQEL DENISKVSKERQELASKIKEVQGRPKQTQSIIILESHIICCTLS TSGGLLLESFAFRGGVPPFSCVIVDEAGQSCSEITLTPLIHRCN KLILVGDPKQLPPTVISMKAQBYGYDQSMARFCRLLEENVEHN MISRLPILQLTVQYRMHPDICLFPSSNYVYNNRLKTNRQTEAIRC SSDWPFPQPYLVFDVGDGSERRDNDSYINVQETKLVMETIKLIKD KRKDVSRNIGIITHYKAQKTMIOKDLDEKFDKGPAEVDTVDA FQGRQKDCVIVTCVRANSIQSGIGFLASLQRLNVTITRAKYSLF ILGHLRTLMEHQHWNQLIQDAQKRGAIKTCCKNYRHDVAKILK LKPVLQRSLSLTHPPTIAPEGSRPQGLPSSKLDGFAKTSVAASL YHTPDSKEITLTVTSKDPERPPVHDQLDPRLLKRMGIEVKGK IFLWDPQSSFPQHPGATPPTGEPGFVVHQLSHVQQAAPVVA LSSHKFPVRGEPFAASPEASTCQSKCDDPEBELCHRRERAFSE GQEKGCGSETHHTRNSRWDRKTLQEDSSSKRKL
6392	972	186	GRGTVDLASSMAHLRQIRLLTWDVKDILLRLRHLGEAYATKAR AHGLEVEPSALEQGFQRAYRAQSHPFNGLSHGLTSRQWNLV VLQTFHLAGVQDAQAVAPIAEQLYKDFSHCTWQVLDGAEDTLR ECRTRGLRLAVISNFRRLLEGILGGLGREHFDVLTSEAAGWP KPDPRIFQELRLAHMEPVVAHVGDNYLCDYQGFRAVGMHSFL VVGPDALDPVVRDSVPKEHILPSLAHLPLALDCLEGSTPGL
6393	2017	730	TGGSKMAAVATCGSVAASTGSAVATASKSNVTSFORRGPRASVT NDSGPRLVSIAGTRPSVRNGQLLVSTGLPALDQLGGGLAVGT LLIEEDKYNIIYSPLLFKYFLAEGIVNGHTLLVASAKEDPANILQ ELPAPLLDDCKKKEFDEVDVNHKTPESNIMKIAWRVQLLPKME IGPVSSSRFGHYDASKRMPQELIEASNWHGFFLPEKISSTLKV EPCSLTPGYTKLLQFIQNIIEEGFDGSGNPQKKQRNLRIGIQN LGSPLWGDICCAENGNSHSLTKFLYVLRGLLRTSLSACIITM PHTLIQKAI IARVTTLSDVVVGLESFIGSERETNPLYKDYHGL IHRQIPRLNLI CDSDVKDLAFKLKRKLFTIERLHLPPLDSD TVSRSSKMDLAESAKRLGPGCGMMAGGKHLDF
6394	1418	511	GAAGGEGARRRPAAMATVMAATAAERAVLEEFWRLLHDEVHA VLKQLQDILKEASLREFTLPGSGTEGPAKQENFILGSCGTDQVKG VLTQGDALSQADVNLKMPRNQLLHFAFREDKQWKLQIQDAR NHVSQAIYLLTSRDQSYQPKTGAEVLKLMDAVMLQLTRARNRLT TPATLTLPETIASGLTRMFAPALPSDLLVNVYINLNKLCCLTVYQ LHALQPNSTKNFRPAGGAVLHSPGAMFEWGSQRLEVSHVHKVEC VIPWLNDAVYFTVSLQQLCKDKISVFSSYWSYRPF
6395	13	658	PSGRPTRPLCCAARRGAARHGGSVSGWPAGRTPPTETSNPGSSVM ESVTFEDVAVEFIQEWALLDSARRSLCKYRMLDQCRTLASRGTP PCKPSCVSQLQRAEPKATERGILRATGVAWESQLKPEELPSMQ DLLEEASSRDMQMGPGFLRMLVPSIEERETPLTREDRPAEQE PWSLGCCTGLKAAMQIQRVVIVPPTLGHNRNPWVARDSGE
6396	1	1221	ANILSSPSKRGQKGTLLIGYSPGEGTFLYNFMGDAFQHSQSIPRF IKESLQKILEESDSRQIFYFLCLNLLFTFVELFYGVLTNSGLI SDGFHMLFDCSALVMGLFAALMSRWKATRIFS YGYGRIEILSGF INGLFLIVIAFFVFMESVARLIDPELDTHMLTPVSVGGGLIVNL IGICAFSHAHSHAHGASQGSCHSDHSHSHHMHGSHDHGHSH GSAGGGMNANMRGVFLHVLADTLGSGIGVIVSTVLIEQFGWFIAD PLCSLFIALILFSLVPLIKDACQVLLRLPPEYEKELHIALEK IQKIEGLISYRDPHFWRHSASIVAGTIHQVTSVDVLEQRIVQOV TGILKLDAGVNNLTIQVEKEAYFQHMSGLSTGFHDVLAMTKQMES MKYCKDGTIIM
6397	391	122	GAGGVGRFEAIRAPARMIEVVCNDRLGKKVRVKCNTDDTIGDLK KLIAAQGTNRWNKIVLKKWYTFKDHVSLGDYBIHGMNLELYY

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			RFALGLSGGSLVSMRLARELPAAVAPAGPASLARWTLGFCDERLV PFDHAESTYGLYRTHLLSRLPIPEQVITINPELPVEEAEDYA KKLRQAFQGDSPVFDLLILGVGPDGHTCSLFPDHPILLQEREKI VAPISDSPKPPQVRVTLTLPVLNAARTVIFVATGEGKAVALKRI LEDQEENPLPAALVQPHGTGKLCWFLDEAAARLLTVPEKHSPIL
6405	1	1456	AALPRPTPRAPLREGTGSDEMAASMFYGRVAVATLRNHRPR TAQRAAAQVLGSSGLFNNHGLQVQQQQQNRNLSLHEYMSMELLQE AGVSVPKGYVAKSPDEAYALAKKLGSKDVIKAQVLAGGRGKGT FESGLKGGVKIVFSPPEAKAVSSQMIGKLLFTKQTGEKGRICNQ VLVCERKYPREYYPATTMERSFQGPVLIGSSHGGVNIEDVAAE TPEAIIKEPIDIEEGIKKEQALQLAQKMGFPNNIVESAAENMVK LYSLFLKYDATMIEINPMVEDSDGAVLCMDAKINFDSNSAYRQK KIPDLQDWTQEDERDKDAKANLNYIGLDGNIGCLVNGAGLAMA TMDIILKHGGTPANFLDVGGGATVHQVTEAFKLITSDKKVLAIL VNIFGGIMRCDVIAQGIWMAVKDLEIKIPVVVRLQGTRVDDAKA LIADSGKLKILACDDLEAARMVVKLSEIVTLAKQAHVDVKQLP I
6406	1036	167	HPRQMRGEDTPEAPPYSSGRYDSIKTEVSGCPEDLTVGRAPTAD DDDDHDDHEDNDKMNDSSEGMDPERLKAFNMFVRLFVDENLDRM VPISKQPKKIQAIIESCSRQFPFQERARKRIRTYLKSRRMK KNGMEMTRPTPPHITSAMAENILAAACESETRKAARKMRLEIYQ SSQDEPIALDKQHSRDSAATHSTYSLPASSYSQDPVYANGGLN YSYRGYGALSSNLQPPASLQTNHNSGESGEARALASRPAPSW CRAALGSGMGRGKQRPVMERGCLTA
6407	492	150	VGLCLAVSQTVLAQLDALLVFPQVQVQLSCTLSPOHVTIRDYGV SWYQQRAGSAPRYLLYYRSEEDHHRPADIPDRFSAKDEAHNAC VLTISFPVQPEDDADYYCSVGYGFSP
6408	1458	903	RGCITSSQAWRLFGGVTRGFNMRIKCYFCSGPIYPGHGMMFVR NDCKVFRFCKSKCHKNFKKRNPRKVRWTKAFRKAAGKELTVDN SFEFEKRRNEPIKYQRELWNKTIDAMKRVEEIKQKRQAKFIMNR LKKNKELQKVQDIKEVKQNIHLIRAPLAGKQKLEKVMVQQLQE DVDMEDAP
6409	150	446	NTALANLLRCFTCDRLCGGCTAPAPPAHQGIVLQVPMFSCDPGP GPACLPKTKTFRSYLPRCHRTYSCVHCRAHLAKHDELISKSFQGS HGRAYLFNSV
6410	85	607	RGGTAGCVACLGCGWQSSSPKAAFPAGSACLPAADSCPCLLFQAC AISGLFNCITIHPLNIAAGVWMIMNAFILLCEAPFCQFIEFA NTVAEKVDRLRSWQKAVFYCGMAVVPVIVISLTTLTLGNAIAPA TGVLYGLSALGKKGDAYSARIQQQRQQADEEKLAEETLEGEL
6411	302	772	RLSIMASSLNEDPEGSRITYVKGDLFACPKTDSLACISEDCRM GAGIAVLFFKKKFGGVQELLNQKKSGEVAVLKRDGRYIYYLITK KRASHKPTYENLQKSLKAMKSHCLKNGVTDLSMPRIGCGDLRLQ WENVSAMIEEVFEATDIKITVYTL
6412	61	1709	RPVTSFSPLEPGSCGRLGTRTMLGRSLREVSAAKQGGITPTEL CQKCLSLIKKTKFLNAYITVSEEVALKQAESEKRYKNGQSLGD LDGIPIAVKDNFSTSGIETTCAENMLKGYIPPYNATVVQKLLDQ GALLMGKTNLDEFAMGSGSTDGVFPGVKNPWSYSKYREKRKQN PHSENEEDSWLITGGSSGSAAVSAFTCYAALGSDTGGSTRNP AAHCGLVGFKPSYGLVSRHGLIPLVNSMDVPGILTRCVDDAAIV LGALAGDPDRDSTTVHEPINKPFMLPSLADVSKLCIGIPKEYLV PELSSEVQSLWSKAADLFESEGAKEVIEVSLPHTSYSIVCYHVL TSEVASNMARFDGLQYGHRCIDVSTEAMYAATRREGFNDVVRG RILSGNFFLLKENYENYFVKAQKVRRLIANDFVNAPNSGVDVLL TPTTLSEAVPYLEFIKEDNRTRSAQDDIFTQAVNMAGLPAVSI VALSNQGLPIGLQFIGRAFCQQLLTVAKWFEKQVQFPVQLQE LMDDCSAVLENEKLASVSLKQ

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6413	2	885	HEPRCAGMAASLWMGDLEPYMDENFISRAFATMGETVMSVKIIR NRLTGIPAGYCFVEFADLATAEKLHKKINGKPLPGATPAKRFKL NYATYGKQPDNSPEYSLFVGDLTPOVDDGMLYEFVKVYPSCRG GKVVLDQTVGSKGYGFVKFTDELEQKRALTECCGAVGLGSKPVR LSVAIPKASRVKPEYSQMYSSYNQYYQYQNYAAGWGYDQNT GSYSYSPQYGTQSTMQTYEEVGDDALEDPMPLQDVTAEANKEF MEQSEELYDALMDCHWQPLDVSSEIPAMM
6414	1	538	RGGRAALLPWRRFPCCRPFPQPARPSSRATPGPRSPGMATSIGV SFSVGDGVPEAEKNAGEPENTYILRPVFQQRFRPSVVKDCIHAV LKBELANAAYSPEEMPQLTKHLSNIDKDKLKMFGFDYKMMVVQV VIGEQRCGEVFMASRCFWADATDNYTHDVFMMNDSLFCVVAAPGC FYY
6415	2	1168	FVRQWQSSHRRACGLGCEARAGGGEEPRGRASSVAGWVGAFRAP FTEAAVAGLGAGSGKRRRGWKMPVHSRGDKKETNHHDEMEVDYA ENEGSSSEDEDTSSSVSEDDGDSSEMDDEDCERRMECLDEMSEN LEKQFTDLKQDLYKERLSQVDAKLQEVIAKAPLEYLEPLATLQE NMQIRTKVAGIYRELCLSVKNKYCEIQASRQHCESEKLLLYD TQSELEEKIRRLBEDRHSIDITSSELWDELQSRKKRKDPFVFPD KKKPGVVSVPYIVYMLQDLIDLEDWTTIRKAMATLGPFRVKTETP PVKLEKHLHSARSEGRLYYDGEWYIRGQTCIDKKDECPTSAV ITTIHDEWVFKRPDGSKSKLYISQLQKGYKSIKHS
6416	410	1519	ETAPADLEIPACAPVLLSRATSSMTSMVTGGKMAPSLTQELSHL GLASKTAAMGTGLTLRTFLNFSVDKDAQRLRLRAITGGVDRSAI VDVLNRSREQRQLISRNFEQTQQDLMKSLQAALSGNLERIVM ALLQPTAQFDAQELRTALKASDSAVDVAIEILATRTFPQLQECL AVYKHNQVEAVDGTSETSGILQDLLLLALAKGGRDSYSGTIDY NLAEQDVQALQRAEGPSREETWVPVFTQRNPEHLIRVFDQYQRS TGOELEEAQNRPHGDAQVALLGLASVIKNTPLYFADKLHQALQ BTEPNYQVILIRILISRCETDLSIRAEFRKKFGKSLYSSLLQDAV KGDCQSALLALCRAEDM
6417	1	845	RGESRVLWSELEGEAGGAGGWASSLNARMDNRFPATFVIACVLS LISTIYMAASIGTDFWYFYRSPVQENSSDLNKSINDEFISDEAD EKTYNDALFRYNGTVGLWRRCTIPKMMWYSPPERTESFDVVT KCVSFTLTEQFMEKFVDPGNHNSGIDLLRTRYLWRCQFLFPFVSL GLMCFGALIGLCACICRSLYPTIATGILHLLAGLCTLGSVSCYV AGIELLHQKLELPDVSSEFGWFSFCLACVSAPLQFMASALFIWA AHTNRKEYTLMKAYRVA
6418	2	662	TRTRPRRPPGLGAAGVKGARSTSTPAGASPAAYQADPPPPAH TPAPPPPPPCGGIACHGEPKAFYGYDNLRQPIFTTQQAELVQ YFDCKSSSGNIGEDPDHLNQSSSPSQMFPMRPAAPGRRRGRQ TYSRFQTLLEKEFLFNPYLTRKRIEVSHALALTERQVKIWFQ NRRMKWKKENNKDKFPVSRQEVKGETKKEAQELEEDRAEGLTN
6419	1	973	PGRPRVRNFDLNSKSTLQEFFCTRSIQIPANRSKTAMSKCPIFP MARSISTSGPLDKEDTGRQKLITSGSLPATLQATDSLGLEWHL PSPDPVTVPYLSPLVWKELESLENEGDAITVADFVDHHPV FWNLVWYFRRDLPSNLPLGLILSSBHCNKYSKIPRHCMSEDSKY VLQMLWDMKMLHQDPGQPLYILWNAHTQKYPMVHLLQKSDNSF NQELLKSMVKSIMNDVYGPMSSQILETLNKCPIFKRQRLYREI LFLSLVALGRENIDIDAFDKEYKMAVDRLTPSQVSKSTHNCORPP STGVMECKRTFGEPLY
6420	207	1187	RKMIDKNQTCGVGQDSVPYMICLIHILEWFGVEQLEDYLNAN YLLWVFTPLILLILPYFTIFLLYLTIIIFLHIYKRKNVLKEAYSH NLWDGARKTVATLWDGHAAVWHGYEVHGMKEIPEDGPALIIFYH GAIPIDFYFMAKIFIHKGRTCRVVADHFVFKIPGFSLLLDVFC ALHGPKEKCEILRSGHLLAISPGGVREALISDETYNIWGHRR GFAQVAIDAKVPIIPMFTQNIREFGRSLGGTRLFRWLYEKFRYP

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			FAPMYGGFFVKLRITLGDPIPYDQPITAEELAEKTKNAVQALID KHQRIPGNIMSALLERFH
6421	1844	362	WALSRRQPERMSNKLSPHPSVVLRSSEFKMASSPAVLRASRL YQWSLKSSAQFLGSPQLRQVGQIIRVPARMAATLILEPAGRCWC DEPVRIAVRGLAPEQPVTLRASLRDEKGFQAHARYRADTLGE LDLERAPALGGSFAGLEPMGLLWALEPEKPLVRLVKRDVRTPLA VELEVLDGHDPPGRLLCQTRHERYFLPPGVRREPVRVGRVGRGT LFLPPEPGFPFPGIVDMFGTGGGLLEYRASLLAGKGFVAMALAY NYEDLPKTMETLHLEVFEEMNYLLSHPEVKGPVGLLGISKGG ELCLSMASFLKGITAAVVINGSVANVGGTLRYKGETLPPVGVNR NRIKVTKDGYADIVDLNLSPLEGPDQKSPFIVERAESTFLFLVG QDDHNWKSEFYANBACKRLQAHGRKPKQIICYPETGHIYIEPPYF PLCRASLHALVGSPIIWGGEPRAHAMAQVDANKQLQTFPHKHLG GREGTIPSKV
6422	181	2133	EGENLSWFQEFWGDIAKEFYWKTPCPGPFRLYNFDVTGKIFIE WMKGATTNICYNVLDNRNVHEKKLGDKVAFYWEGNEPGETTQITY HQLLVQCQPSNVLRKQGIHKGDRVAIYMPMPELVVAMLACAR IGALHSIVFAGFSSESCLERILDSCLLITTDAYRGEKLVNL KELADEALQKCKEKGFPVRCCIIVKHLGRABLMGMDSTSQSPPI KRSCPDVQISWNQIDLWHELMQEAAGDECEPEWCDADPLFIL YTSGSTGKPKGVVHTVGGYMLYVATTFKYVPDFHAEDVFWCTAD IGWITGHSYVTYGFLANGATSVLFEGIPTYPDVNRLWSIVDKYK VTKFYTAFTAIRLLMKFGDEPVTKHSRASLQVLGTVGEPINPEA WLWYHRVVGARCPIDVTFWQETGGHMLTPLPGATPMKPGSAT PFFFGVAPAILNESGEELEGEAEGYLVEFKQWPGIMRTVYGNHR RFETTYFKKPPGYVVTGDGCQRDQDGYWITGRIDMLNVSGHL LSTAEVESALVEHAEEAAVVGHPHPVKGECLYCFVTLCDGHT FSPKLTTELKQKIREKIGPIATPDYIQNAPGLPKTRSGKIMRRV LRKIAQNDHDLGDMSTVADPSVISHLFSHRLTIQ
6423	614	1237	ANLKEIPRDLPPETVLLVLDNSQITSIPNEIFKDLHQLRVLNLS KNGIEFIDEHAFKGVATLQTLDLSDNRIQSVHKNFNNLKARA RIANNPWCHDCTLQOVLRSMAHNETAHNVI CKTSVLDEHAGRP FLNAANDADLCNLPKKTTDYAMLVTMFGWFTMVISYVYVVRQN QEDARRHLEYLKLSPSRQKKADEPDISTVV
6424	1	1188	KKVSWPVAAMVHCSCVLFERKYNFIDKRLFLTRGGSGMGYPRL GGEKGKGDVWVAHNRMTLKQLKDRYPRKRFVAGVGANSKISA LKSGSKGDWEI PVFVGISVTDENGKI IIGELNKENDRILVAQGG GGKLLTNFLPLKGQKRI IHLDLKLIADVGLVGFNAGKSSLLSC VSHAKPAIADYAFTTLKPELGKIMYSDFKQISVADLPGLIEGAH MNKGMGHKFLKHIERTRQLLPVVDISGFQLSSHTQYRTAFETII LLTKELELYKEELQTKPALLAVNKMDDLPAQDKFHELMSQLQNP KDFLHLFEKNMIPERTVEFQHIIPISAVTGEIEELKNCIRKSL DEQANQENDALHKKQLLNLIWISDTMSSTEPPSKHAVTTSKMDI I
6425	1850	1144	LAMEGGGGIPLLETLKEESQSRHVLPAFSEVNSLQKSNWGFLLTG LVGGTLVAVYAVATPFVTPALRKVCLPFVPATMKQIENVVKMLR CRGSLVDIGSGDGRIVIAAAKKGFTAVGYELNPVLVWYSRYRA WREGVHGSAKFYISDLWKVTFQSQSNVVI FGVPMMLQLEKKLE RELEDDARVIACRFPFPHWTPDHVTGEGIDTVWAYDASTFRGRE KRPCTSMHFLPIQA
6426	30	565	SRGAAVGGMSVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRR LHAEEFAAERDWEQFHQPRNLLALVGEVGLAEFLQWKTDGEPG PQGWSPRERAAALQEELSDVLIYVLAARCRVDLPLAVLSKMDI NRRRYPAHLARSSSRKYTELPHGAISEDQAVGPADIPCDSTGQT ST
6427	145	959	AASWGPVPHVPKAGKMVSWMICRLVVLVFGMLCPAYASYKAVKTK NIREXVRMMYIWFALFMAAEIVTDIFISWFFPYEIKMAFVL

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			WLLSPYTKGASLLYRKFFVHPSLSRHEKIDAYIVQAKERSYETV LSFGKRGLNIAASAQVQATKSGQALAGRLRSFSMQDLRSISDA PAPAYHDPYLEDQVSHRRPPIGYRAGGLQSDTEDECWSDTEA VPRAPARPREKPLIRSQSLRVVVRKPPVREGTSRSLKVRTRKKT VPSDVDS
6428	1982	444	SGSGGKMEDHQHVPIDITQTSKLLDWLVDRRHCSLKWQSLVLTIR EKINAAIQDMPESSEEIAQLLSSGYIHYFCHLRILDLKGTAST KNIFGRYSSQRMKDWQETIALYEKDNITLVLSLLVRNVNVEI PSLKQIAKCOQLQOEYSRKEEECOAGAAEMREQFVHSCQYGI TGENVRGELLALVKDLPSQLAEIGAAAQQLGEAIDVYQASVGF VCESPTQVLPMRLRFVQKRGNTVYEWRTGTETPSVVERPHLEEL BEQVAEDAIDWGDGFGVEAVSEGTDSGISAEAGIDWGFIPESDS KDPGGDGIDWGDVAVALQITVLEAGTQAEQVARGPDALTLEY TETRNPFLDELMELEIFLAQRAVELSEADVLVSQFQLAPAIL QGQTKKMTVMVSVLEDLIGKLTSLQLQHLFMILASPRYVDRVT EFLQQLKQSQLLALKKELMVQKQQAEEQAALPEKLLDLLEK TKELQKLIEADISKRYSGRPVNLMTSL
6429	3413	3442	EPSSWTAAPRGPLAAHPLEAAVQEDDRRLSFDRIKVFANGTL VVKSVTDKADGDLVCVARNKVGDDYVVLKVDVVMKPAKIEHKEE NDHKVFYGGDLKVDCAVATGLPNPEISWSLPGSLVNSFMQSDDS GGRTKRYVFNNGTLVFNVEGMREEGDYTCFAENQVKGKDEMRVR VKVVTAPATIRNKTCLAVQVPYGDVVTVACEAKGEPMPKVTWLS PTNKVIPSSEKYQIYQDGTLLIQAKQRSDSGNYTCLVRNSAGE DRKTVMHVNQPPKINGNPNPITTVREIAAGSGRKLIDCKAEG IPTPRVLWAFPEGVLPAPYVGNRITVHNGSLDIRSLRKSQSDV QLVCMARNEGGEARLIVQLTVLEPMEKPIFHDPISEKITAMAGH TISLNCASAGTPTPSLVVLPNGTDLQSGQQLQRFYHKADGMLH ISGLSSVDAGAYRCVARNAAGHTERLVSLKVLKPEANKQYHNL VSIINGETLKLPCPTPPGAGQGRFSWTLPNGMHLEGPQTLGRVSL LDNGTLTVREASVDFRGTYVCRMETEYGPSVTSIPVIVIAYPFR ITSEPTPVIYTRPGNTVKNLNCMAMGIPKADITWELPKSHLKG VQARLYGNRFLHPQGSLLTIQHATQORDAGFYCKMAKNILGSDSKT TYIHVF
6430	1946	602	RTRVSTGLRRTLLWSEAVGASSTRGDTGIPGSGEGGAGPGGGEG AMLEAMAEPSPEDPPPTLKPETQPPKEKRRRTIEDFNKFCSEFVLA YAGYIIPPSKEESDWPASGSSPLRGESAADSDGWDSAPSDLRTI QTFVKKAKSSKRRAAQAGPTQPGPPRSTFSRLQAPDSATLLEKM KLKDSLFDLDGPKVASPLSPTSLSLTHTSRPPAALTVPVLSQGDLS HPPRKDRKNRKLPGAGAGFVLRPRPTPGDGEKRSRIKSK KRKLKAERGDRLLPPGPPQAPPDSDTSEEEEEEEEEEEEEEMA TVVGGEAPVPVLPPTPEAPRPATVHPGVPPADSESKVGSTE TSQGDASSSEGEEMRVMDIEDIMVESGDDSWDLITCYCRKPPAGR PMIECSLCGTWIHLSCAKIKKTNVPDFFYCQCKELRPEARLG GPPKSGEP
6431	3	605	WNNSSYNLPAYAPYLPCEACAMQDGRKGGAYAGKMEATTAGVGR LEEEALRRKERLALREKTGRKDKEDGEPKTKHLREEEEBGEKH RELRLRNYVPEDEDLKKRRVPQAKPVAVEEKVKQLEAAKPEPV IEEVDLANLAPRKPDWDLKRDVAKKLEKLKRTQRAIAELIRER LKGQEDSLASAVDAATEQKTCDS
6432	56	1692	GGLTGMGSRIKQNPETTFEVYVEVAYPRTGGTSLDPEVQRQFFE DYSQEVLTQTLTKFCFFYVDSLTVSQVGNFTFVLTIDSKQR FGFCRLSSGAKSCFCILSYLPWFVEFYKLLNIALDYTTKRQENQ WNELETLHLKLPIDPGVSVHLSVHSYFTVPDTRELPSIPENRN LTEYFVAVDVNNMLHLVASMLYERRILII CSLSTLTACIHGSA AMLYPMYQHVYIPVLPPLLDYCCAPMPYLIGIHLSLMEKVRN MALDDVVILNVDNTLETFFDDLQSLPNDVLISSLKNRLKKVSTT

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			TGDDVARAFLKAQAFFGSGYRNALKIEPERPITFCERAFVSHYR SGAMRQFLQATQLQLFKQFIDGRDLNLSGEGFSDVFEEINM GBYAGSDKLYHQWLSTVRKSGAILNTVTKANPAMKTVYKFDI AENGCAPTPEEQPKTAPSPLEAKDPKLRDRRPITVHFGQVR PPRPHVVKRPKSNIAVEGRRTSVSPSEQNTIATPATLHLQKSI THFAAKFPTRGWTSSSH
6433	1524	484	APVTKRKEVFAKDSKGSALDAGRDPKRPALPETLCESGWASNTA PTTPPQPGWCLCGKDFKSSCQTPGREKERRLATMHGSCSFLMLL LPLLLLVATTGPVGALTDEEKRLMVELHNLRYAQVSPASDML HMRWDEELAAFAKAYARQCVWGHNKERRRGENLFAITDEGMDV PLAMEEWHHEREHYNLSAATCSPGQMCGHYTQVVWAKTERIGCG SHFCEKLQGVETNIELLVCNVEPPGNVKGKRPYQEGTPCSQCP SGYHCKNSLCEPIGSPEDAQDLPLYLVTEAPSFRAEASDSRKMG AEGDPKPSVVSGLNSGPGHVWGPELLGLLLPFLVLGIF
6434	40	2002	MPQLNFGMADPTQMGLSMLLAGEHALGTPEVFSGTCRPPDVE SPERQRKSPFLQFAEISSSTSHSDASTKQCOTSAFQFAEISSN TSQLGGAEPVKRCGKSALFLAEMCLASEGMKMEESKLIKAKES DGGRIKELEKGEKEIKMEKTDETRLQKEAFESKAKENLRDS KELRNFEALQIDIMAIKMEDPKEIRKEELEEDHKCSHPDFSY SASSKIIISDVPSRKDHMCHPHGIMIIEDPAALNKPELKKKKK KSKMDRHGNDKSTPKKTKCKRQSSSESDIESVIYIEIAVAKGDWG IEKLODTPRKKVRTSSSGKGSILDAKPPKKKVKRSREKMSKEKS SDTTKESRPPDFISISASKNISGETPEGIKAEPLTPMEDALPPS LSGQAKPEDSDCHRIETCGSRKRSERCKGALYKTLVSEGMLTS LRANVDRGKRSSGKGNSSDHEGCVNEESWTFQSQSGTSKSKPKK TKPKEDCLLGSAKLDEEFKFKFNSLPQYSPVTFDRKCVVPVPRKK KKTGNVSSEPTKTSKSGSGDKWSNQLFLDAIHTEAIFSEDRNT MEPVHKVKNIPISIFNTPEPTTARTFGGQPKESKENPDYSPCQ DTQRAGYHHEEVLWMTNLMNCCGGVYLKQLRHTAMTNA
6435	2227	657	ALQRDAAAYAHPEYERFLQEETVSQQINSIELLQTRPLALPE VVKSORPLQRQVHLRGRPASOPTVIRGITYYKAKVSEENDIEE QQDEFFSGDNGVDLLIEDQLLRHNGMLTSVTRRPAATRQGHSTA VTSDLNARTAPWSSALPQPTSDPSIANHASVGPTLQTTQSVSPD PTRESVLQPSQVPATTVAHTATQPAAPAPPVSPREALMEAM HTVPVPPTTVRTDSLKGDAAGRGTTTASPSTLSPEEEDDIRNVI GRCKDTLSTITGPTTQNTYGRNEGAWMKDPLAKDERIYVTNYYY GNTLVEFRNLNENFKQGRWSNSYKLPYSWIGTHGVVYNGAFYYNR APTRNIIKYDLKQRYVAAWAMLHDVAEEATPWRWQGHSDVDFA VDENGLWLIYPALDDEGFSQEVIVLSKLNADISTQKETTWRTG LRRNFYGNCFVICGVLYAVDSYNQRNANISYAFDHTNTQIIVPR LLFENEYFYTITQIDYNPKDRLLYAWDNGHQVTYHVFAY
6436	1295	341	GACRPFVRQDPDSDGPDYALPAGATVTTHMVAGAVAGILEHCMV YPIDCVKTRMQSLQPDPAARYRNVLALWRIIRTEGLWRPMPGL NVTATGAGPAHALYFACYEKLKKTLSDVHHPGGNSHIANGAAGC VATLLHDAAMNPAEVVKQRMQMYNSPYHRVTDVCRVAVWQNEGAG AFYRSYTTQLTMNVFQAIHFMTYEFLOEHNFPQRRYNPSSSVL SGACAGAVAAAATTPLDVCKTLNLTQESIALNSHITGHITGMAS AFRTVYQVGGVTAYFRGVQARVIYQIPSTAIAWSVYEFFKYLIT KRQEEWRAGK
6437	1828	360	PPAPAPPASPARHVTRTARGHLEGGSRAPPLLQAVFLQIKNMVK LIHTLADHGGDDVNCASFSSLLATCSLDKTIIRLYSLRDFTELP SPLKFHTYAVHCCCFSPSGHILASCSTDGTTVLWNTENGQMLAV MEQPSGSPVRVCQFSPDSTCLASGAADGTVVLWNAQSYKLYRCG SVKDGSLAACAFSPNGSFFVTGSSCGDLTVWDDKMRCLHSEKAH DLGITCCDFSSQPVSDGEQGLQFFRLASCQDCQVKIWIIVSFTH ILGFELKYSTLSGHCAPVLACAFSHDQMLVSGSVDKSVIVYD

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			TNTENILHTLTQHTRYVTTCAFPNTLLLATGSMKDTVNIWQFD LETLCQARSTEHQLKQFTEDWSEEDVSTWLCQADLKDVLGIFKM NNIDGKELLNLTKESSLADDLKIESLGLRSKVLKIEELRTKVKS LSSGIPDEFICPITRELMKDPVIASDGYSEKEAMENWDPAKRN RTSPP
6438	109	901	EVQILRAKMFQTGGLIVFYGLLAQTMAQFGGLPVPLDQTLPLNV NPALPLSPTGLAGSLTNALSNGLLGGGLGILENLPLLDILKPG GGTSGGLLGGLLGKVTSTVPLNNIIDIKVTDPLLELGLVQSP DGHRLYVTIPLGIKLQVNTPLVGASLLRLAVKLDITAEILAVRD KQERIHVLVDCTHSPGSLQISLLDGLGPLPIQGLLDSLTGILN KVLPELVQGNVCPVNEVLRLGLDITLVHDIVNMLIHGLQFVIKV
6439	23	412	SIQTASAITTEMASQSQGIQQLQAEKRAAEKVADARKRKARL KQAKBEAQMEVEQYRREREHEFQSKQAAMGSQGNLSAEVEQAT RRQVGQMSSQQRNRERVLAAQLGMVCDVRPQVHPNYRISA
6440	3	517	RARWNSDMGDLPLGLVRLSIALRIQPNDDGVFYKVDQRFQGNRT IKLITGSSYKVEVKIKPSTLQVENISIGGLVPLLELKSKEPDGD RVVYTGTVDTGVTPTKSGERQPIQITMPFTDIGTFETVWQVKF VNYHKRDHCQWGSPPFSVIEYECKPNETRSLMWVKNESFL
6441	234	1373	KSGGLRRRQRPGRSAAVGEEELPPGMEKFKAAMLGSSVGDALGY RNVCKENSTVGMKIQBELQSRGGLDHLVLSFGENPVSDNTIMHI ATAEALTTDYWCDDLREYMRVCYVEIVEKLPERRPDPATIEGC AQLKPNNYLLAWHTPFNEKSGSGFGAATKAMCIGLRYWKPRLT LIEVSVECGRMTHNHPGTGFLGSLCTALFVSFAAQGKPLVQWGRD MLRAVPLAEYCRKTIKHTAEYQEHWFYFEAKWQFYLEERKISK DSENKAIFFPDNYDAEREKTYRKWSSEGRGRRGHADAPMIAYDA LLAAGNSWTELCHRAMFHGGESAAATGTIAGCLFGLLYGLDLVPK GLYQDLEDKEKLEDLGAALYRLSTEEK
6442	34	796	AEDPAGGLAGQDTMFARGLRKRCVGHEDVEGALAGLKTVSSYS LQOQSLDMSLVKLQLCHMLVEPNLCRSVLIAINTVRQIQEEMTQ DGTWRTVAPQAAERAPLDRLVSTELCRAAWGQEGAHPASGLGD GHTQGPVSDLCPVTSQAAPRHLQSSAWEMDGPENRGSFHKSLD QIFETLETKNPSCMEELFSDVDSPPYDLDTVLGTMMGGARPGPC EGLEGLAPATPGPSSSSCKSDLGELDHVVEILVET
6443	2	555	MASPAASSVRPPRPKKEPQTLVLPKNAABEQKLLERLMKNPDK AVPIPEKMSEWAPRPPEFVRDVMGSSAGAGSGEFHVRHLRRR EYQRQDYMDAMAEKQKLDAEFQKRLKKNKIAABEQTAKRRKKRQ KLKEKLLAKKMKLEQKKQEGPGQPKQEGSSSSAEASGTEEEEE VPSFTMGR
6444	390	899	GSTPRGKMRAPIEPKPGDLIEIFRPFYRHNAIYVGDGYVHVA PFSEVAGAGAASVMSALTDKAIYVKELLYDVAGSDKYQVNNKHD DKYSPLPCSKIIQRAEELVGQEVLYKLTSENCEHFVNELRYGVA RSDQVRDVI IAAVAGMGLAAMSLIGVMFSRNRKQKQ
6445	2	753	AGAAGAAGAARSPPQARTKGVRLPSRRRSPDCGRMELAAGSF SEEQFWEACAEQQPALAGADWQLLVETSGISYRLLDKKTGLY EYKVFGLVEDCSPTLLADIYMSDYPKQWDQYVKELYEQECNGE TVVYWEVKYPPMSNRDYVYLRQRRLDMGRKIHVILARSTSM PQLGERSGVIRVKYQKSLAIESDGKKGSKVFMYYFDNPGGQIP SWLINWAAKNGVNFNFKDMARACQNYLKKT
6446	1	1651	RCPTRSPPPDTPGSRGTTAMCSLASGATGGRGAVENEEDLPELS DSGDEAAWEDEDDADLPHGKQQTCLFCNRLFTSAEFTFSHCKS EHQFNIDSMVHKHGLEFYGYIKLINFIRLKNPTVEYMNSIYNPV PWEKEEYLPVLEDDLLQFDVEDLYEPVSVFSSYPNGLSENTS VVEKLLHMEARALSAEALARAREDLQKMKQFAQDFVMTDVRT CSSSTSVIADLQEDBDGVYFSSYGHYGIHEMLKDKIRTESYRD FIYQNPFIKDKVVLVDVCGGTGILSMFAAKAGAKKVLGVQDQSEI

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			LYQAMDIIRLNKLEDTITLIKGGKIEEVHLPVEKVDVITSEWMGY FLLFESMLDSVLYAKNKYLAKGGSVYPDICTISLVAVSDVNKHA DRIAFWDDVYGFKMSCMKKAVIPEAVVEVLDPKTLISEPCGKIH IDCHTTSISDLEFSSDFTLKITRTSMCTAIAGYFDIYFEKNCHN RVVFSTGPOSTKTHWKQTVFLLEKPFPSVKAGEALKGKVTVHKNK KDPRLSTVTLTLNNSQTQYGLQ
6447	1554	1068	RLGPAEWHLSGPGCHATLGAANRGRALGVRAAWRGAPLCQVUMMP SRTNLATGIPSSKVYSRLSSTDDGYIDLQFKKTPPKIPYKAIA LATVFLIGAFLLIIGSLLSGYISKGGADRAVPVLIIGILVFL PGFYHLRIAYVASKGYRGYSYDDIPDFDD
6448	74	559	GQVLSHCYHYRSSRRRGGLSRGRGAGVMALVPYEETTEFGLQK FHKPLATFSFANHTIQIRQDWRHLGVAAVVWDAIVLSTYLEMG AVELRGRSAVELGAGTGLVGIVAALLACRIRYERDNNFLAMLER QFIVRVHYDPEKDVHIYEAKRKNQKEDL
6449	597	1876	EYGVCCNLRKLEITGVSCRDVYAKLLHRYRHILGLWQPDIGPYG GLLNVDVVDGLFIIGWMLPPHDPHVDDPMRFKPLFRIHLMERKA ATVECMYGHKGPHHGHIIQIVKDEFSTKCNQTDHHRMSGGRQEE FRTWLREEWGRTLEDIFHEHMQELILMKFIYTSQYDNCCLTYRRI YLPSPRPDDLKPGFLKGTYSHGLEIVMLSFHGRRARGTKITG DPNIPAGQQTVEIDLHRRIQLPDLENQRFNLSRIVLEVRERV RQEQEGGEGHEAGEGRGRQGPRESQPSAPQRAEAPSKGPDGTPG EDGGEFGDAVAAABQPAQCGQGPVLPVGVSSRNEDYPRTCRM CFYGTGLIAGHGFTSPERTPGVFI LFDDEDRFGFVWLELKSFSLY SRVQATFRNADAPSPQAFDEMLKNIQSLTS
6450	848	269	FVPAVRTVSGKRSLEGEWEERGEQRTGREGSGNGGRAVEAAR MRLLCGLWLWLSLLKVLQAQTPPLPLPPPMQSFQGNQFQGEWF VLGLAGNSFRPEHRALLNAFTATFELSDDGRFEVWNAMTRGQHC DTWYVVLIPAAQPGQFTVDHRVWTHEQAGRPQDQAPAGQLVAAS RDAGPVHLPGQSSGFLG
6451	232	939	HSPTPTSPRATMEDVKLEFFSLPQCKEDAEWYTPMRREMGE YLPGLFLGPYSSAMKSLPVLQKHGITHICIRQNTIEANFIKPN FQQLFRYLVDIADNPVENIIRFPMTKEFIDGSLQMGCKVLVH GNAGISRSAAFIAYIMETFGMKYRDAFAYVQERRFCINPNAGF VHQLQEYEAIIYLAKLTIQMMSPLQIERSLSVHSGTTGSLKRTHE EEDDFGTMQVATAQNG
6452	1	652	RTRGESSNMEPLAAYPLKCSGPRAKVFAVLLSIVLCTVTLFLLO LKFLPKPKINSFYAFEVKDAKGRVTSLKYKGVSLVNVNASDCQ LTDNRNVLGLKELHKEFGPSHFSVLAAPPQNQFGESEPRPSKEVES FARKNYGVTFPIPHKIKILGSEGEPAFRFLVDSSKKEPRWNFWK YLVNPEGQVVKFWRPEEPIEVIREPIAALVRQVIIKKKEDL
6453	827	223	HRRWLPGLSMSPRRTLPRPLSLCLSLCLCLAAALGSAQSGSC RDKKNCKVVSQQLRKRLTPLQYHVTOEKGTESAFEGEYTHHK DPGIYKCVVCGTPLFKSETKFDGSGGWPSFHDVINSEAITFTDD FSYGMHVRVETSCSQCGAHLGHI FDDGPRPTGKRYCINSAALSFT PADSSGTAEGSGVASPAQADKAEL
6454	827	223	HRRWLPGLSMSPRRTLPRPLSLCLSLCLCLAAALGSAQSGSC RDKKNCKVVSQQLRKRLTPLQYHVTOEKGTESAFEGEYTHHK DPGIYKCVVCGTPLFKSETKFDGSGGWPSFHDVINSEAITFTDD FSYGMHVRVETSCSQCGAHLGHI FDDGPRPTGKRYCINSAALSFT PADSSGTAEGSGVASPAQADKAEL
6455	1042	173	RVHLATVSASAAWDALGLPVRSHMQSGSTRMGVMTDVHRRFLQL LMTHGVLLEWDVKRLQTHCYKVHNRNATVDKLEDFINNINSVLE SLYIEIKRGVTEDDGRPIYALVNLATTSISKMATDFAENELDLF RKALELIIDSETGFASSTNINLVDLKGGKMRKKEAQVLQKF VQNKWLEKEGEFTLHGRAILEMEQYIRETPDAVKICNICHSL

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			LIQQQSCBCTCGIRMHLPVAKYFQSNAPRCPCNDYWPHEIPK VFDPEKERESGVLSKNKSLRSRQH
6456	2	555	RPQSRISIMWRNSLLQVSSGLRWLRVCAMVDILGERHLVTCGKA TVEAEALQNKVVALYFAAARCAPSRDFTPLLCDFYTALVAEAR RPAPFEVVFVSADGSSQEMLDPMRELHGAWLALPFHDPYRHELK KRYNVTAI PKLVIVKQNGEVITNKGKQIRERGLACFQDQWVEAA DIFQNFVS
6457	23	892	PTTGFPVNTNFPWNWPDGKPPIMILYVSKLNKIIHFDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIIILSVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IFTAANGVYTKQKMDPKELGKYGVLFYNACFMIIPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLLMYSTVLCSYYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTLLSSQLKPKPVGEENICLDLKS
6458	23	892	PTTGFPVNTNFPWNWPDGKPPIMILYVSKLNKIIHFDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIIILSVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IFTAANGVYTKQKMDPKELGKYGVLFYNACFMIIPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLLMYSTVLCSYYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTLLSSQLKPKPVGEENICLDLKS
6459	23	892	PTTGFPVNTNFPWNWPDGKPPIMILYVSKLNKIIHFDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIIILSVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IFTAANGVYTKQKMDPKELGKYGVLFYNACFMIIPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLLMYSTVLCSYYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTLLSSQLKPKPVGEENICLDLKS
6460	23	892	PTTGFPVNTNFPWNWPDGKPPIMILYVSKLNKIIHFDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIIILSVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IFTAANGVYTKQKMDPKELGKYGVLFYNACFMIIPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLLMYSTVLCSYYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTLLSSQLKPKPVGEENICLDLKS
6461	1653	360	LQQTTLRITAVGQTHPIAWMAWEPISLGAFYGPASFITFVNCMYF LSIFIQLKRHPERKYELKEPTEEQQRLAANENGEINHQDSMSLS LISTALENEHTFHSQQLGASLTLLLYVALWMFGALAVSLYYPL DLVFSFVFGATSLSFSAFFVHHCVNREDVRLAWIMTCCPGRSS YSVQVNVQPPNSNGTNGEAPKCPNSSAESSCTNKSASSFKNSSQ GCKLTNLQAAAAQCHANSPLNSTPQLDNSLTEHSMNDNDIKMHV APLEVQFRTNVHSSRHKNRSKGHRASRLTVLREYAYDVPTSVE GSVQNGLPKSR LGNNEGHSR SRAYLAYRERQYNPPQQDSSDAC STLPKSSRNFEKPVSTTSKKDALRKPAVVELENQKSYGLNLAI QNGPIKSNQEGPLLGTDSTGNVRTGLWKHETTV
6462	3	773	SEELDREKKLKEDSPRKTPNKESGVPSLPVSLTSIKEEPKEAKH PDSQSMEESEKLNDDRTPVNWKDSRGTRVAVSSPMSQHSYIQ YLHAYFPYQMYDP SHPAYRAVSPVLMHSYPGAYLSPGFHYFVYG KMSGRETEKVNTPSVNTKTTTESKALDLLOQHANQYRSKSPA PVEKATAEREREABERERDRHSPFGQRHLHTHHHTHVGMGYPLIP GQYDPFQGLTSAALVASQVAAQASAGMFPQGRRE
6463	2	350	VILCILGGWIFKNADRSMEKKKGEPRTAEARPWVDEDLKSSD LHQAEDADEWQSEENVEHIPFSGHNHYPEKEMVKRSQEFYELL NKRRSVRFISNEQVMEVIDNVIRTAGL
6464	12	1154	GILRQKEREERNRIHKKEILFLEHLLVVPSEMSSLSGKVQTVLG

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			LVEPSKLGRTLTTHSHLMTDFCCYCPPPPCQEAISKEPIVMKNL YWIQKNAYSHKENLQLNQETEAIKEELLYFKANGGGALVENTTT GISRDTQTTLKRABETGVHIIISGAGFYVDATHSSETRAMSVEQL TDVLMNEILHGADGTSIKCGIIGEIGCSWPLTESERKVLQATAH AQAQLGCFVIIHPGRSSRAFFQIIRILQEAGADISKVTMSHLDR TILDKKELLEFAQLGICYLEYDLPGLTELLHYQLGPDIDMPDDNKR IRRVRLVVEEGCEDRILVAHDIIHTKTRLMKYGGHGYSHILTNVV PKMLLRGITENVLDKILIENTPKQWLTFK
6465	126	1396	KMTVFFKTLRNHWKKTAGLCLLTWGGHLYGKHCDNLLRRAAC QEAQVFGNQLIPPNQAVKATVFLNPAACKGKARTLFEKNAAPI LHLSGMDVTIVKTDYEGQAKKLELMENTDVIIVAGDGTQLQEV VTGVLRRDTEATFSKIPIGFIPLGETSSLSHTLFAESGNKVQHI TDATLAIVKGETVPLDVLQIKGEKEQPVFAMTGLRWGSRDAGV KVSQWYLEPLKIKAAHFFSTLKEWPQTHQASISYTGPTERRPN EPEETPVQRPSTLYRILRLASYWAQPDALSOEVSPEVWKDVQ LSTIELSITTRNNQDPTSKEDFLNICIEPDTISKGDFTIGSR KVRNPKLHVGECELOASQCTLLIPEGAGGSFSDSEYEAMPV EVKLLPRKLOFFCDPRKREQMLTSPTQ
6466	1134	828	VARGTELSQLEKAHPADMGRRKSKRPPPKKMTGTLETQFTC PFCNHEKSCDVKMDRARNTGVISCTVCLLEEFQTPITYLSEPV YSDWIDACEAANQ
6467	301	2571	GELRVLAHAGELACHAVLTASLLSLRSRLMDSMDYERPNVET IKCVVVGDNVAGKTRLCARACNATLTQYQLLATHVPTVWAIQ YRVCQEVLEERSRDVDDVSVSLRLWDTFGDHHKDRRFAYGRSDV VVLCSIANPNSLHHVKTMMWYPEIKHFCPRAPVILVGCQLDLRY ADLEAVNRARRPLARPIKPNELPPEKGREVAKELGIPYVETSV VAQFGIKDVPDANRAALISRRHLQFWKSHLRNVQRPLLOAPFL PPKPPPIIVVPDPPSSSEECFAHLEDPLCADVILVLQERVRI FAHKIYLSSTSSSKFYDLFLMDLSBEGELGGPSEPGGTHPEDHQGH SDQHHHHHHHGRDFFLLRAASFVDCESVDEAGSGPAGLRST SDGILRGNGTGYLPGRGVLSWSRAVFSIQEEMAEDPLTYKSR LMVVVKMDSSIQPGPFRAVLKYLTYGELDENERDLMHIAHIAEL LEVFDLRMMVANILNNEAFMNQETKAFHVRRTNRVKECLAKGT FSDVTFILDDGTISAHKPLLISSCDWMAAMFGGPFVESSTREVV FPYTSKSCMRVLEYLYTGMFTSSPDLDMDKLIILANRLCLPHL VALTEQYTVTGLMEATQMMVDIDGDVLFVLELAQFHCAQLADW CLHHICTNYYNNVCRKFPDRMKAMSPENQYEFKHRWPPVWYLKE EDHYQRARKEREKEDYLHLKRPKRRLFWNSPSSPSSSAASS SPSSSAVV
6468	3	1374	DAWAGTNMAALAPVGSASRGPRLAAGRLRLPMLGLLQLLAEPG LGRVHHLALKDDVRHKVHLNTFGFFKDGVMVNVSSLSLNEPED KDVITIGFSLDRTKNDGFSSYLDEVDVNYCILKKQSVSVTLILLDI SRSEVRVKSPPPEAGTQLPKIIFSRDEKVLGQSQEPNVNPPASAGN QTQKTQDGGKSKRSTVDSKAMGEKSFVHNNGGAVSFQFFFNIS TDDQEGLYSLYFHKCLGKELPSDKFTFSLDIEITEKNPDSYLSA GEIPLPKLYISMAFFFLSGTIWIHILKRRNDVFKIHWLMAAL PFTKSLSLVFHAIDYHYISSQCFPIEGWAVVYIITHLLKGALLF ITIALIGTWAFIKHILSDKDKKIFMIVIPRRVLANVAYIIIES TEEGTTEYGLWKDSLFLVDLLCCGAILFPVWWSIRHLQEBASATD GKGKFSRAHFVLLSL
6469	3	1374	DAWAGTNMAALAPVGSASRGPRLAAGRLRLPMLGLLQLLAEPG LGRVHHLALKDDVRHKVHLNTFGFFKDGVMVNVSSLSLNEPED KDVITIGFSLDRTKNDGFSSYLDEVDVNYCILKKQSVSVTLILLDI SRSEVRVKSPPPEAGTQLPKIIFSRDEKVLGQSQEPNVNPPASAGN QTQKTQDGGKSKRSTVDSKAMGEKSFVHNNGGAVSFQFFFNIS TDDQEGLYSLYFHKCLGKELPSDKFTFSLDIEITEKNPDSYLSA

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			GEIPLPKLYISMAFFFFLSGTIWIHLKRRNDVFKIHWLMAAL PPTKSLSLVFHAIDYHYISSQGFPFIEGWAVVYIITHLLKGALLF ITIALIGTGWAFIKHILSDKDKKIFMIVIPRRVLAVYIIIES TEEGTTEYGLWKDSLFLVDLLCCGAILFPVVWSIRHLQEASATD GKGKFSRAHFVLLSL
6470	2726	1437	AAASGVSSRADAPVLAQSPASAGNGRPSTPRVPGSRRHPSAPRS GPLPREDGCRTPGPQLPLPGALLRPRTLLSSAAETGRSRHPDT QHPSSGGRCRGGTESPSSAAGRPAEMAEEDCHSDTVRADDDDE ENESPAETDLQAQLQMFRAQWFMELAPGVSSSNLENRPFCRAARG SLQKTSADTKGQEQAKEKARELFLKAVEEEQNGALYEATKFY RRAMQLVPDIEFKITYTRSPDGDGVGNSYIEDNDDSKMADLLS YFQQQLTFQESVLKCPPELESSQIHISVLPMEVLMYIFRWVWS SDLDLRSLEQLSLVCRGFYICARDPEIWRLLACKLVWGRSCIKLV PYTSWREMPLEPRVPRFDGVYISKTTYIRQGEQSLDGFYRAWHQ VEYYVYIRFPDGHVMMLTTPPEPQSIIVPRLRTR
6471	1750	299	FFFDKMAAGSGVGGKRSSKSDADSGFLGLRPTSDVPALERRRR GPRNKKRGWRLAQEPLGLEVDQFLEDVRLQERTSGGLLSEAPN EKLFPVDTGSKKEKGLTKKRTKVQKSSLLKKPLRVDLILENTSK VPAPKDVLAHQVPNAKLLRRKEQLWEKLAQGEPLPREVRAQAR LLNPATRAKPGPDQTVRPFYDLWASDNPLDRPLVGQDEFFLE QTKKKGVKRPRLHTKPSQAPAVEVAPAGASYNPSFEDHTLLS AAHEVELQRQKEAEKLERQLALPATEQAATQESTFQELCEGLLE ESDGEPEGPGQGEPEAGDAEVCPTPARLATTEKTEQQRREKA VHRLRVQQAALRAARLRHQELFRLRGIKAQVALRLAELARRQRR RQARRAEADKPRRLGLRLKYQAPDIDVQLSSELTDSLRLTKPEG NILRDRFKSFQRRNMIERPRERAKFKRYKVKLVKRAFREIQL
6472	3	897	SCGSDRAQWAMEFFFDVDALEPERITVLDQHLRPPARRPGTTTP ARVDLQQQIMTIIDELGKASAKQNLAPITSAARMQSNRHVVY ILKDSSARPAGKGAIIQFIKVGKYLFLVDDREAHNEVEPLCIL DFYIHESVQRHGHGRELQYMLQKERVEPHQLAIDRPSQKLLKF LNKHYNLETTVPQVNNFVIFEGFFAHQHRPPAPSLRATHSRAA AVDPTPAAPARKLPKRAEGDIKPYSSSDREPLKVAVEPPWPLN RAPRRATPPAHPPPPSSSLGNSPERGPLRPFVP
6473	22	912	SSAEFVWECEKMAAEPNKTETIQLFKRLRAVFTNKACFDGAK NPSWASITYGVFLCIDCSGVHRSGLVHLSFIRSTELDSNWNWFQ LRQMVGGNANATAFFRQHGCTANDANTKYNRAAQMYREKIRQ LGSAAALRHGTDLDWIDNMSSAVPNHSPKKSDFFTEHTQPPAW DAPATEPSGTQQPAPSTESSGLAQPEHGPNTDLLGTSFKASLEL KSSIIIGKKKPAAKKGLGAKKGLGAQKVSSQSFSSEIERQAQVAE KLREOQAADAKKQAEESMVASMLAYQELQIDR
6474	3	462	LQRQRQHPAAAPAVPVRCFTFCFTDIVIMPKRKSPENTGKDG KVTKEPTRRSARLSAKPAPPKPEPKPRKTSAKKEPGAKISRGA KGKKEEKQEGAGKEGTAPSENGETKAEIHSRSTVNVSTSRGTP PSTLSVKGQIETVRVKGTEN
6475	3	462	LQRQRQHPAAAPAVPVRCFTFCFTDIVIMPKRKSPENTGKDG KVTKEPTRRSARLSAKPAPPKPEPKPRKTSAKKEPGAKISRGA KGKKEEKQEGAGKEGTAPSENGETKAEIHSRSTVNVSTSRGTP PSTLSVKGQIETVRVKGTEN
6476	106	1090	ARAMAQYKGTMRBAGRAMHLLKKRERQREQMEVLKORIAEETIL KSQVDKRFSAHYDAVEAEKSSTVGLVTLNDMKARQEAALVRERE RQLAKROHLEEQRLQERQREQREKRRKISCLSFDLDDDD QADAAEARRAGNLGKNPDVDTSLPDRDREERENRLREELRQEW EAQREKVDEEMEVTFSYWDGSGHRRTRVRKGNVTQQLKAL QGLRKDFLELSAGVEQLMFIKEDLILPHYHTFYDFIARARGK SGPLFSFDVHDDVRLSDATMEKDESHAGKVLRVLSWYKKNKHIF PASRWEAYDPEKKWDKYTIR

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6477	227	915	LQGHLMGIMAASRPLSRFWEWGKNIVCVGRNYADHVREMRSAVL SEPVLFLKFPSTAYAPEGSPILMPAYTRNLHHELELGVVMGKRRCR AVPEAAAMDYVGGYALCLDMTARDVQDECKKKGLPWTAKSFTA SCPVSFAFVPEKIPDPHKLKLWLKVNGLRQEGETSSMIFSIDY IISYVSKIITLEEGDIILTGTTPKGVGPVKENDEIEAGIHGLVSM TFKVEKPEY
6478	2	1495	PVSSRILPESLASSEASTLEAMGRKEEDDCSSWKKQTTNIRKTF IFMEVLGSGAFSEVFLVKQRLTGKLFALKCIKKSPAFDRSSLEN EIAVLKKIKHENIVTLEDIYESTTHYYLVMQLVSGGELFDRILE RGVYTEKDALSVIQOVL SAVKYLHENGIVHRDLKPENLLYLTP ENSKIMITDFGLSKMBEQNGIMSTACGTPGYVAPEVLAQKPYSKA WDCWSIGVITYILLCGYPPFYEETESKLFKEIKEGYVEFESPPW DDISESAKDFICHLLLEKDPNERYTCEKALSHPWIDGNTALHRDI YPSVSLQIQKNFAKSKWRQAFNAAAVVHMRKLMNLHSPGVPR EVENRPPETQASSETSRPSSPEITITEAPVLDHVALPALTQLPC QHGRRTAPGGRLNCLVNGSLHISSSLVPMHQGSLAAGPCGCC SSCLNIGSKGKSSCYCSEPTLLKKANKKQNFKSEVMVPVKASGSS HCRAGQTGVCLIM
6479	3	949	SCRGPWHFAGGQAGAMELLSALS LGELALSFSRVLPFPVFDLS YFIVSILYKYPEGAVELSRRIPIASWLCAMLHCFGSYILADLL LGEPLIDYFSNNSSILLASAVWYLIFFCPLDLFYKCVCFPLVKL IFVAMKEVVRVKIAVGIIHAAHHYHHGWFVMIATGWVKGSGVA LMSNFEQLLRGVWKPETNEILHMSFPTKASLYGAILFTLQQTRW LPVSKASLIFITL FMVSKVFLTATHSHSSPFDALGYICPVL FGSACGGDHHHDNHGSGSHSGGPGAQHSAMPKSKKEELSEGRK KKAKKAD
6480	192	514	DFMSIYFPIHCPDYLRS AKMTEVMNMQPMEIIGLSPRKDGLSY QIFDPDPSDFDRCKLKDRLPSIVVEPTGEVESEGLRWPPEEFL VQEDQDNCEETAKENKEQ
6481	110	1131	KSRMDLDVVMFVIAGGTLAIPILAFVASFLWPSALIRIYYWY WRRITLGMQVRYVHHEDYQFCYSFRGRPGHKPSILMLHGFSAHKD MWLSVVKFLPKNLHLVCVDMPGHEGTRSSLDLSIDGQVKRIH QFVECLKLNKKPFHLVGTSMGGQVAGVYAAYYPSDVSSLWLVC AGLQYSTDNQVQRLKELQGSAAVEKIPLIPSTPEEMSEMLQLC SYVRFKVPQQILQGLVDVRI PHNNFYRKLFLEIVSEKSRYSLHQ NMDKIKVPTQI IWGKQDQVLDVSGADMLAKSIANCQVELLENG HSVVMERPRKTAKLIIDFLASVHNTDNNKKLD
6482	2517	568	EPVSKVSQSRKAGVPTANTEESQAVEAAMNVFPAEVCEKFOA ALALSRVELHKNPEKEPYKSKYSARALLEEVKALLGPAPEDDE RPEAEDGPGAGDHALGLPAEVVEPEGPAQRAVRLAVIEFHLGV NHIDTEELSAGEEHLVKCLRLRLRRLSHDCISLCTQAQNNLGI LWSEREBIETAQAYLESSEALYNQYMKVEGSPPLDPTERFLPEE EKLTEQERSKRFEKVYTHNLYLAQVYQHLEMFKAHCHSTL KRQLEHNAYHPIEWAINAATLSQFYINKLCFMEARHCLSAANVI FGQTGKISATEDTPEAEGEVPELYHQKGEIARCIWKYCLTLMQ NAQLSMQDNIGELDLKQSELRALRKKELDEEESIRKKAQVQGT GELCDAISAVEEKVSYLRLPDLFEARELFLLGQHYVFEAKEFFQ IDGYVTDHIEVVQDHSALFKGLAFETDMERRCKMHKRRIAMLE PLTVDLNPQYLLVNRQIQFEIAHAYYDMMDLKVAIADRLRDPD SHIVKKINNLSALKYYQLFLDSLRLDPNKVPPEHIGEDVLRPA MLAKFRVARLYGKIITADPKLENLATSLHYKFIVDYCEKHP EAAQIEVELELSKEMVSLPTKMERFRTKMALT
6483	3	623	NSHLLCGLRARAPLSANGREARAMEQRLAEFRAARKRAGLAAQP PAASQGAQTPGEKAEAAATLKAAPGWLKRFLVWKPRPASARAQP GLVQEAAPQGSTSETPWNTAIPLPSCWDQSFLLTITFLKVLW LVLLGLFVLEFGLAYFVLSLFYWMYVGTGTPBEKKEGEKSAYS

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6484	201	965	VFNPGCEAIQGTTLTAEQLERELQLRPLAGR QLAVKTKMSGLRPGTQVDPEIELFVKAGSDGESIGNCFFCQRLF MILWLKGVKFNVTVDMDTRKPEELKDLAPGTNPPFLVYNKELKT DFIKIEEFLEQTLAPPYRPHLSPKYKESFDVGCNLFPAKFSAYIK N [*] QKEANKNFEKSLLEKFKRLDDYLTFLDIDPDSAEPPVVS RRLFLDGDQLTLADCSLLPKLNI [*] IKVAAKKYRDFDIPAEFSGVW RYLHNAYAREEFTHTCPEDKEIENTYANVAKQKS
6485	6	1091	FVDLVRAVEFLPCPDSQKLEKEQSSSESMGNSMRSTILEDEE DEEPPRVLLYHEPRSFVEGMLVWHKHKYFPWPVAVKSVQRDK KASVLYIEGHMNPKNMGFTVSLKSLKHFDCKEKQTLNQAREDF NQDIGWCVSLITDYRVRLGCGSFAGSFLEYAADISYPVRKSIQ QDVLGTLKPLQSLKSGSPPEEPVVGCPGQRPCKRMPLDRSRAARD RANQKLVEYIGAKAGAESHLRAILKSRKPSRWLQTLFLSSSQYVT CVETYLEDEGQLDLVVKYLQGVYQEVGAKVLQRTNGDRIRFILD VLLPEAII [*] CAISAGDEVYKTAEEKYIKGPSLSYREKEIFDNQL LEERNRRRR
6486	10	581	LVLQAGGAHLSPSRVTQGIYYMLAFSEMPKPPDYSELSDSLTLA GGTGRFSGPLHRAWRMNFRQRMGWIGVGLYLLAGAAAFYVVE ISETYNRLALEHIQOHPEEPLGGTTWTHSLKAQLLSLFPWVWT IFLVPYLQMFPLYSCSTRADPKTVGCIIPICLAVICNRHQAFV KASNQISRLQLIDT
6487	352	863	SFLKPLRGKMSVTLTVDGDIKIEVFCERTPKTCENFLALCASN YYNGCIFHRNI [*] KGFMVQTDGPTGTGRGNSIWGKCFEYSEYL KHNRGVVSMANGPNTNGSQFFITYGKQPHLDMKYTVFGKVID GLETLELEKLPVNEKTYRPLNDVHIKDITIHANPFAQ
6488	878	241	TALQFEGTSGPPLSLRFPALPSGTGRFKPLPGARGPSWFPSPRPV MEPPNLYPVKLYVYDLSKGLARRLS [*] IMLGKQLEGIWHTSIVVH KDEFFFGSGGSISSCPGGTLLGPPDSVVDVGSTEVTEEIFLEYL SSLGESLFRGEAYNLFENHCNFTSNEVAQFLTGRKIPSYITDLP SEVLSTPFGQALRPLLSIQIQPPGGSSVGRPNQGS
6489	1457	375	KVAKMATALSEELDNEDYISLLNVRREASSEELKAAYRRLCML YHPDKHRDPELKSQAERLFNLVHQAYEVLSDPQTRAIYDIYGRK GLEMEGWEVVERRRTPAEIREEFERLQREERERLQRTNPKGT ISVGVDATDLFDYDEYEDVSGSSFPQIEINKMHISQIEAPL TATDTAILSGSLSTQNGNGGGSINFALRRVTSAGWGELEFGAG DLQGPLFGLKLFRLNLTFRCFVTTNCALQFSSRGIRPGLTTVLAR NLDKNTVGYLQWHCSSLQVQRPFRNTRACAPEPSFRPFLHVP TWDAECGARTPSTAWTSAAVKLREACLSGPGSGSHQLLLLTFR SKRRTGGG
6490	3	1183	HEAGCEVWLGYGPRAAAAAAATVLEGGAGPTETMFVARSLAADH KDLIHDSVDFHGRMATCSDDQSVKVVWDKSESGDWHCTASWKT HSGSVVRVTTWAHPEFGQVLASCSFDRTAAVWEEIVGESNDKLRG QSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYE APDVMNLSQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSD DSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDVPHDIAFAPNL GRSFHILAIATKDVRIFTLKPVRKELTSSGGPTKFEIHIVAQFD NHNSQVWRVSWNITGTVLASSGDDGCVRLWKANYMDNWKCTGIL KNGSPVNGSSQQTSENPSLGSNIPSLQNSLNGSSAGRKHS
6491	3	1183	HEAGCEVWLGYGPRAAAAAAATVLEGGAGPTETMFVARSLAADH KDLIHDSVDFHGRMATCSDDQSVKVVWDKSESGDWHCTASWKT HSGSVVRVTTWAHPEFGQVLASCSFDRTAAVWEEIVGESNDKLRG QSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYE APDVMNLSQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSD DSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDVPHDIAFAPNL GRSFHILAIATKDVRIFTLKPVRKELTSSGGPTKFEIHIVAQFD NHNSQVWRVSWNITGTVLASSGDDGCVRLWKANYMDNWKCTGIL

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6492	34	2573	<p>KGN GSPVNGSSQQGTSNPSLGSNIPSLQNSLNGSSAGRKHS</p> <p>IPFLKSCCCCLDFPPPLDQVOEECEVERVTEHGTPKPFRRK FDSVAFGESQSEDEQFENDLETDPPNWQQLVSRVLLGLKPCFI KRQEVINELFYTERAHVRTLKVLDDQVYQVRVSRGILSPSELRK IPSNLELDILQLHIGLNEQMKAVRKRNETSVIDQIGEDLLTWFGS PGEEKLKHAAATFCNQPFALMIKSRQKKDSRFQTFVQDAESN PLCRLQLKDIPTQMQRLLTKYPLLDNIATYTEWPTEREKVKK AADHCRQILNYVNOAVKEAENKORLEDYQRRDLTSSSLKSEYPN VEELRNLDLTKKRMIHEGPLVWKNRDKTIDLYTLLEDILVLL KQDDRLVLRCHSKILASTADSKHTFSPVTKLSTVLVRQVATDN KALFVISMDSNGAIYELVAQTVSEKTVWQDLICRMAASVKEQS TKPIPLPQSTPGEGDNDEEDPSKLKEEQHGISVTGLQSPDRDLG LESTLISSKPQSHSLSTSGKSEVRDLFVAERQFAKEQHTDGTLK EVGEDYQIAIPDSHLPVSEERWALDALRNLGLLQQLLVQQLGLT EKSVDQWQHFPYRTASQGFQTDSTVQNSENIKAYHSGEGHMP FRTGTGDIATCYSPTSTESFAPRDSVGLAPQDSQASNILVMDH MIMTPEMPTMEPEGGLDSDGEHFFDAREAHSDENPSEGDGAVNK EEKDVNLRISGNYLILDGYDPVQSSSTDEEVASSLTLPMTGIP AVESTHQOQHSPOHSDGAISSPTPEFLVQQRWGAMEYSCFEI QSPSSCADSSQIMEYIHKIEADLEHLKKVEESYITLQRLAGS ALTDKHSDBKS</p>
6493	557	1147	<p>TPARMAYQGSSTSDCMSKTLDSASAHFAASAVVSAVPVSRSEVA KEQNTGHNINGVVQFSGTSKTLYSTNMALSSSPGISAVQLVRT VGHTTTNELIPALCTSSPQTLPMNNSCLTNAVHLNNVSVVSPVN VHINTRTSAPSPALKLATVAASMDRVPKVTSSAISIIARENH EPERLGLNGIAETTVAMEVT</p>
6494	2425	1052	<p>AVAGGARPCSTPSSPHRRRHRPRPLPRPPAATMSASAVVLD LKGKVLICRNYRGDVMSEVEHFMPILMEKEEGMLSPILAHGG VRFMWIKHNNLYLVATSKKNACVSLVFSFLYKVVQVFSEYFKEL BEESIRDNFVYIYELLDELMDFGYPQTDSKILQEYITQEGHKL ETGAPRPPATVTVNAVSRSEGIKYRKNEVFLDVIESVNLVLSAN GNVLRSEIVGSIKMRVFLSGMPELRGLNDKVLFDNTGRGKSKS VELEDVKFHQCVRLSRFENDRTISFIPPDGEFELMSYRLNTHVK PLIWIESVIEKHSRISRIEYMIKAKSQFKRRSTANNVEIHIPVN DADSPKFKTTVGSVKWVPENSEIIVWSIKSFPGGKEYLMRAHFG PSVEAEDKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQAL PWVRYITQNGDYQLRTQ</p>
6495	2425	1052	<p>AVAGGARPCSTPSSPHRRRHRPRPLPRPPAATMSASAVVLD LKGKVLICRNYRGDVMSEVEHFMPILMEKEEGMLSPILAHGG VRFMWIKHNNLYLVATSKKNACVSLVFSFLYKVVQVFSEYFKEL BEESIRDNFVYIYELLDELMDFGYPQTDSKILQEYITQEGHKL ETGAPRPPATVTVNAVSRSEGIKYRKNEVFLDVIESVNLVLSAN GNVLRSEIVGSIKMRVFLSGMPELRGLNDKVLFDNTGRGKSKS VELEDVKFHQCVRLSRFENDRTISFIPPDGEFELMSYRLNTHVK PLIWIESVIEKHSRISRIEYMIKAKSQFKRRSTANNVEIHIPVN DADSPKFKTTVGSVKWVPENSEIIVWSIKSFPGGKEYLMRAHFG PSVEAEDKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQAL PWVRYITQNGDYQLRTQ</p>
6496	247	559	<p>LRAVSLPLQLVLPYISHSFLCIMPFLCAQEWLTLGLNVPLLFY HFWRYPHCPADSSSELAYDPPVVMNADTLYSCQKEAWCKLAFYLL SFFYYLYCMIYTLVSS</p>
6497	1053	352	<p>ANTQICRLCPRRHLHPPCGAKMGNGTEEDYNFVFKVVLIGESGV GKTNLLSRFTRNEFSHDSRTTIGVEFSTRTVMLGTAAVKAQIWD TAGLERYRAITSAYYRGAVGALLVFDLTQKQTYAVVERWLKELY DHAETIVVMLVGKNSDLSQAREVPTBEARMFAENNGLLFLETS ALDSTNVLEAFETVLKEIFAKVSKQRQNSIRTNATLGSAAQAGQ</p>

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6498	2636	272	EPGPGKCRACISL SLRLCPWGTHTLAGPTTMRLLSLLALLRPPALPLILGLSLGCSLSL LRVSWICGEGEDPCVEAVGERGGPQNPDSRARLDQSDDEFKPRI VPYYRDPNPKPKVLRTRYIQTELGSRRERLLVAVLTSRATLSTL AVAVNRTVAHHFPRLLYFTGQGRARAPAGMQVVSHTGDERPAWLM SETLRHLHTHFGADYDWFIMQDDTYVQAPRLAALAGHLSINQD LYLGRAEEFIGAGEQARYCHGGFGYLLSRLLLRLRPHLDGCRG DILSARPDWLGRLIDSLGVGCVSQHQGQYRSFELAKNRDPE KEGSSAFLSAFAVHPVSEGLMYRLHKKRFALELERAYSEIEQL QAQIRNLTLVLTPEGEAGLSWPVGLPAPFTEHSRFEVLGWDYFTE QHTFSCADGAPKCPLQASRADVGDALETALEQLNRRYQPRLR KQRLNLNGYRRFDPARGMEYTLDDLLECVTQRGHRRALARRVSL LRPLSRVEILPMPYVTEATRVQLVPLLVAAEAAAPLEAFAPAA NVLEPREHALLTLLLVYGPREGGRGAPDPFLGVKAAAELEERRY PGTRLAWLAVRAEAPSQVRLMDVVSCKHPVDTLFFLTIVWTRPG PEVLNRCRMNAISGWQAFFPVHFEFNPALEPQSPGPPGAGP DPPSPGADPSRGAPIGGRFDRQASAEAGCFYNADYLAARLAG ELAGQEEEALEGLEVMDFLRFSGHLHFRVPEGLVQKFSRLD CSPLRSEELYHRCRLSNLEGLGGRALAMALFEQEQAQNST
6499	3	2040	SCSADTRPSGQAWPTVGLRAAAGAFRTGSPALGPTFPQVACL GHPVVRPQVSGGPGAMPDPAHLPFFYGSISRAEAEHLKLAGM ADGLFLLRQCLRLSGGYVLSLVHDVRFHHPFIERQLNGTYAIA GKAHCGPAELCEFYSRDPDGLPCNLKPCNRPSEGLEPOPGVDFC LRDAMVRDYVRQTKLEGEALAEQAIISQAPQVEKLIATTAHERM PWYHSSLTREEAERKLYSGAQTDGKFLLRPRKEQGTALSLIYG KTVYHYLISQDKAGKYCIEGTKEFTLWQLVEYLKADGLIYC LKEACPNSASNASGAAAPTLPAHPSTLTHPQRRIDTLNSDGYT PEPARITSPDKPRPMPMDTSVYESPSYSDPEELKDKXFLKRDNL LIADIELGCGNFGSVRQGVYMRKKQIDVAIKVLKQTEKADTE EMMREAQIMHQLDNPYIVRLIGVCQAEALMLVMEMAGGGLHKF LVGKREEIPVSNVAELLHQVSMGMKYLEENFVHRDLAARNVLL VNRHYAKISDFGLSKALGADDSYTTARSAGKWLKXNAPBCINF RKFSSRSVDVWSYGVIMWALSYGKPKYKMKGPVMAFIEQGKR MECPPECPPPELYALMSDCWIKWEDRPDFTLVEQMRACYSLSA SKVEGPPGSTQKAEAAACA
6500	1773	726	TGPTHASADAWGLVRSVTEWCANVRGNPCAAALSCPQAVLDAGK MLESSESSFLKGVMLGSI FICALITMLGHIRIGHGNRMHHEHHHL QAPNKEDILKISEDERMELSKSFRVYCIILVKPKDVSLLAAVKE TWTKHCDKAEFFSSENVKVFESINMDTNDMMLMRKAYKYAFDK YRDQYNWFFLARPTTFALIBNLKYFLKKDPSQPFYLGHTIKSG DLEYVGMEGGIVLSVZSMKRLNSLLNIPEKCPPEQGGMIWKISED KQLAVCLKYAGVFAENAEDADGKDVPTKSVGLSIKEAMTYHPN QVVEGCCSDMAVTFNGLTPNQMHVMYGVYRLRAFGPYFQ
6501	1	570	LVGMSGGGTETFPVGCEAAPGGGSKKRDLSLGTAGSAHLI IKDLGE IHSRLLDHRPVIQGETRYFVKEFEKRGLEMRVLENLKNMIHE TNEHTLPKCRDTRMDSLSQVLQRLQAANDSVCRLLQREQERKKI HSDHLVASEKQHMLQWDFNMKEQPNKRAEVDEEHRKAMERLKEQ YAEKEDLAKFSTF
6502	213	1650	AGNKPDPWAGRNRTAVLPDVSVFHRDVGWNRSLQSSYQAVKE KSSEALEFMKRDLEFTQVQHDCTACTIAATASVVKEKLATEGS SGATEKMKGLSDFLGVIDTFAPSPDKTIDCDVITLMGTSPSGT AEPYDGTARLYSLQSDPATYCNPDGPPPELFAWLSQFCLEEK KGEISELLVGSPSIRALYTKMVPAAVSHSEFWHRYFYKVHQLAQ EQARRDALQRAEQSISEEPGWEEEEEELMGIISPISPKAKVPV AKISTFPEGEPGFSPEENLVTSEPPAEVTPSESESISLVT QIANPATAPEARVLPKDLKQLLEASLEQGLAVDVGETGSPSP

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			IHSKPLTPAGHTGGPEPRPPARVETLREEAPTDLRVFELNSDSG KSTPSNNGKKGSSTDISSEDWEKDFDLDMTEEEVQMALSKVDASG EVSGPGGSEGSEPNPGPCESSPQPAQLSPQEGPCSLR
6503	213	1650	AGNKPDWPAGNRRTAVLPDVSVFHREDVGVNRSWLQSSYQAVKE KSSEALEFMKRDLEFTQVVOHDTACTIAATASVVKELATEGS SGATEKMKKGLSDFLGVISDTFAPSPDKTIDCDVITLMGTPSGT AEPYDGTAKRLYSLSQSDPATYCNEDGPPPELFDALWSQFCLEEK KGEISELLVGSFPIRALYTKMVPAVSHSEFWHRYFYKVHOLEQ EQARRDALQKRAEQSISEEPGWEEEEELMGISPISPKEAKVPV AKISTFFEPEGPGQSPCFENLVTSEPPAEVTPSESSSISLVT QIANPATAPAEARVLPKDLKSLKLEASLEEQLAVDVGETGPPSPF IHSKPLTPAGHTGGPEPRPPARVETLREEAPTDLRVFELNSDSG KSTPSNNGKKGSSTDISSEDWEKDFDLDMTEEEVQMALSKVDASG EVSGPGGSEGSEPNPGPCESSPQPAQLSPQEGPCSLR
6504	2131	1294	GKVCILVAHVCLSLSPPPAGMKTTPNAQEAEGQQTAAAGRATG SANMTKKKVSQKKQGRPSOPCRNIVGCRISHGWKEGDEPITQ WKGTVLDQVPINPSLYLVKYDGDICVYGLELHDERVLSLKILS DRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGMVLAQA PIMKAWFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPPTE REPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKPSVYFIKF DDDPHIYVYDLVKKS
6505	2131	1294	GKVCILVAHVCLSLSPPPAGMKTTPNAQEAEGQQTAAAGRATG SANMTKKKVSQKKQGRPSOPCRNIVGCRISHGWKEGDEPITQ WKGTVLDQVPINPSLYLVKYDGDICVYGLELHDERVLSLKILS DRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGMVLAQA PIMKAWFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPPTE REPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKPSVYFIKF DDDPHIYVYDLVKKS
6506	1	1350	EVSEPTSCCLTVAVADPGVSEGFGRFGAGCEMPGRGRCPDCGST ELVEDSHYSQSQVLVCSDCGVVTEGVLTTFSDENGLREVITYSR STGENEQVSRSQQRGLRRVRDLRCRVLQLPPTFEDTAVAYYQQA RHSGIRARLQKKEVLVGCCVLITCRQHNWPLTMGAICTLLYAD LDVFSSTVMQIVKLLGLDVPSLCLAEVLKTYCSSFKLFQASPSV PAKYVEDKEKMLSRMTQMLVELANETWLVTRHPLPVTATFLA WQLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMA EQLAWLRVLRDKRSVVKHIGDLLQHRQSLVRSAPFRDGTAEVET REKEPPGHWGQGGEGEVGNNSLGLPQGRPASALLPPCMLKS PKRICPVFPVSTVTGDENISDSIEQYLRTPQEVRFQRAQAAR QAATSVNPF
6507	1878	929	RSHASRLPELPSGCLVLQVQELVQMSGMEATVTIPIWQNKPHGA ARSVVRRIGTNLPLKPCARASFETLPNISDCLRDVPVPVTLAD IAWIAADEEETIYARVRSOTRPLRHTWKPSPLIVMQRNASVPLNR GSEERLLALKKPPALPALSRTELQDELSHLSQIAKIVAADAAS ASLTFDFLSPGSSNVSSPLFCFGSSFSHTTSFVVISDITEBETEVE VPPELPSVPLLCASPECCKEPKAACSSEEDDCVSLSKASSFA DMMGILKDFHRMKQSQDLNRSLLKEEDPAVLISEVLRKRFALKE EDISRKGN
6508	862	342	WEARKRPQRWPSERREVRVPPHQLQGRSGLEPGTFRKMAAARF SLGRVLPSSSVLFLCDMQEKFRHNIAYFPQIVSVAARMLKNTTL DLLDRGLQVHVVDACSSRSQVDRVLVALARMRQSGAFLSTSEGL ILQLVGDAVHPOFKEIQKLIKEPADSGLLGLFQGNLSLH
6509	2	1053	FWNPRGGKRRRQAQAVTQAATRASGTPSPRDGTMTQGLSVAN KAPGTEGQQQVHGEKKEAPAVPSAPPSEYEAATSGEGMKAGAFPP APTAVPLHPSWAYVDPSSSSSYDNGFPTGDHLEFTTFSWDDQKV RRVFVRKVYTIILLIQLLVTLAVVALFTFCDPVKDYVQANPGWYV ASYAVFFATYTLTACCSGPRRHPWNLLILTVFTLSMAYLTGML

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6510	37	1156	SSYYNTTSVLLCLGITALVCLSVTVFSFQTKFDFTSQCGVLFVL LMTLFFSGILAILLPQYVPWLHAYVAAAGAGVFTLFLALDQTQ LLMGNRRHSLSPEEYIFGALNIYLDIIYIFTFPLQLFGTNRE PCALDGCPCQGAHVHPLSSANGLLAFLKQFVHLHLVGFVFFVS GLVINFLVQLCTLALWVPSKQLYRRRLNCRAYSLSWSQLVMLEWW SCTECTLFTDQATVERFGKBHAVIILNHNFEIDFLCGWTMCERF GVLGSSKVLAKKELLYVPLIGWTNYFLEIVFCRKRWEEDRDTVV EGLRRLSDYPEYMWFLLYCEGTRFTETKHRVSMVAAAKGLPVL KYHLLPRTKGFTTAVKCLRGTVAAVYDVTLNFRGNKPNLSLGLI YGKKYEADMCVRRPFLIEDIPLDEKEAAQWLHKLQYQEKDALQEIY NQKGMFPGEQFKPARRPWTLNLSWATILLSPLFSFVLGVFAS GSPLLILTFLGFVGAGNGHCR
6511	2541	1425	GEEQPLAAAPTECLEQVIGGAGDPGTWASFPSPPLPGFAPLKGGK THATNFSDIVKQGYVKMKSRKLGIRRCWLVRKSSSKGPKORLE KYPDEKSVCLRGCPKVTESNVKCVTRLPKETKRQAVAIIFTDD SARTFTCDSELEAEWEYKTLVSECLGSRINDISLGEPLDAPGV QCEQTDREFNVFLPCPNLDVYGECKLQITHENIYLWDIHNPRVK LVSWPLCSLRRYGRDATRFTFAGRMCDAGEGLYTFQTQEGEQI YQRVHSATLAIABEQEKRVLLEMEKNVRLNKGTEHYSYPCPTPT MLPRSAWWHITGSQNIABEASSYAGEGYGAQAASSETDLLNRFI LLKPKPSQGDSSSEAKTPSQ
6512	159	807	FGKKSTWFLPSRSLRVASGRSCKLGHGGYTGSQPGFGEPRDGA EVPSSGSRATGCGRGVGRGARQGRAPGSSIWRKEPRMVCRTKTK TLVSTCVILSGMTNIIICLLYVGVWTVNYIASVYVRGQEPAPDKKL EEDKGDTLKIERLDHLENVIKQHIQEPAPKPEAEAEPPDSS LFAHWQQLSPEGRVALKQFQYGYGNAYLSDRPLDRP
6513	2	756	FVSPGPGSLAQLNLIWQLTDTKQLVHSFAEGQDQGSAYANRTA LFPDLLAQGNASRLRQVRVADEGSFTCFVSIIRDFGSAAVSLQV AAPYSKPSMTLEPNKDLRPGDVTITCSSYQGYPEAEVFWQDQGV GVPLTGNVTSQMANEQGLFDVHSILRVVLGANGTYSCLVRNPV LQDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSF SPEPGFSLAQLNLIWQLTDTKQLVHSFAEGQDQGSAYANRTALF PDLLAQGNASRLRQVRVADEGSFTCFVSIIRDFGSAAVSLQVAA PYSKPSMTLEPNKDLRPGDVTITCSSYQGYPEAEVFWQDQGV PLTGNVTSQMANEQGLFDVHSILRVVLGANGTYSCLVRNPVQ QDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSFSP EPGFSLAQLNLIWQLTDTRQLVHSFTEGR
6514	985	302	VGIPGPTISSAEMEDLLDLJEEELRYSLATSRKMGRRQQESA QAEHNLNGKNSSLTLTGETSSAKLPRCQGGWAGDSVKASKPRR KASEIEDFRLRPQSLNGSDYGGDIPIIPDLEEVQEEFVLQVA APPSIQIKRVMTYRDLNDLMKYSAIQTLDDGEIDLKLLTKVLAP EHEVRERNPSWQDDVGDWDHDLFEVSSEVLTEWDPLQTEKEDP AGQARHT
6515	1345	305	GRVGSRRRGAAVPGGCGAGSTQLEVSASASCGALGSADNPIV VHGGGAGPISKDRKERVHQMVRRAATVGYGILREGGSAVDAVEG AVVALEDDPEFNAGCGSVLNTNGEVEMDASIMDGKDLGAGVSA VQCIANPIKRLARLVMEKTPHCFLTDQGAQFAAAMGVPEIPGEK LVTERNKKRLEKEKHEKGAQKTDCKNLGTVGAVALDCKGNVAY ATSTGGIVNKMVGRVGDSPCLGAGGYADNDIGAVSTTGHGESIL KVNLRALTLEHIEQGXVBEADLSLGYMKSRVKGLGLIVVSK TGQWVAKWTSISMPWAAAKDGKLFHFGIDPDPTTITDLP
6516	1	1402	FRRLRYLGQDATAAARDLRTGLQGYCPSATARQQVLVSALQQL KGRSEHRNENQEMPYSTNKLILGIMVGTAGISLLLLWYHKVR KPGIAMKLEFLSLGNTFNSITLQDEIHDDQGTIVIFQERQLQI LEKLNELLTNMEELKEIRPLKEAIPKLEEYIQDELGGKITVHK ISPQHRARKRLPTIQSSATSNSEAESEGGYITANTDTEEQS

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			FPVPKAFNTRVEELNLDVLLQKVDHLRMSESGKSESFELLRDHK EKFRDEIEFWMRFARAYGDMYELSTNTQEKKHANIGKTLSERA INRAPMNGHCHLWYAVLCGYVSEFEGLOKINYGHLFKEHLDIA IKLLPEEPFLYYLKGRYCYTVSKLSWIEKKMATLFGKIPSSSTV QEALHNFLKAELCPGYSNPNMYLAKCYTDLEENQNALKFCNL ALLLPTVTKEDKEAQKEMQKIMTSLKR
6517	3	1414	GRVVGSSSSLNAMVYVRGHAEDYERWQARGWDYAHCLPYFR KAGGHELGAARYRGADGFLRVSRGKTNHPLHCAFLEATQQAGYP LTEDMNGFQOEGFGWMDMTIHEGKRWSAACAYLHPALSRTNLKA EATLVSRLVFEGRVAVGVYVKNQSHRAYASKVILSGGAIN SPQLMLSGIGNADDLKLGIPVVCVCHLPVGVQNLQDHLBIYIQQ ACTRPITLHSAQKPLRKVCIGLEWLWKFTEGATAHLETGGFIR SQPGVPHPDIQFHLPSQVIDHGRVPTQOEAYQVHVGPVRGTSV GWLKLSANPDHPVVIQPNYLSTETDIEDFRLCVKLTREIFAQE ALAPFRGKELQPGSHIQSDKEIDAFVRAKADSAYHPSCTCKMGQ PSDPTAVVDPTQTRVLGVENLRVVDASIMPSMVSGNLNAPTIMIA EKAADIIKGQPALNDKDVVYKPRTLATQR
6518	242	1098	PAWNPGESEPRTRVRPRARSFPLPPPRAPRRRRHLLRAVPGPSR RHRCRRRAPPPSTMGDAGSERSKAPSLPPRCPCGFWGSSKTMN LCSKCFADFQKKQPDSDSAPSTSNQSDLFSEETSDNNNTSIT TPTLSPSQQLPTELNVTSPSKEECGPCTDTAHVSLITPTKRSC GTDSQSENEASPVKRPRLLENTERSEETSRSKQSRRCFCQQT KLELVQQLGSCRCGYVFCMLHRLPEQHDCTFDHMGGRGEEAIM KMKVLDKRVGRSCQRIGEGCS
6519	3	1113	BRKMAEPPSPVHCVAAAAPTATVSEKEPFGKLQLSSRDPPGSL AKKVRTEKKAPRRVNGEGSGGNSRQLQPPAAPSPQSYGSPAS WSFAPLSAAPSPPSSRSSFSFSAGTAVPSSASASLSQPGPRKLL VPFTLLHAQPHHLLLPAAAAASANAKSRPKKREKERRRHGL GGAREAGGASREENGVEVKPLPRDKIKDKIKERDKEKEREKKHK VMNEIKKENGVEVKILLKSGKEKPKTNIEDLQIKKVKKKKKKKHK ENEKRRPKMYKSIQITCSGLLTDVEDQAAGILNDNIKDYVG KNLDTKNYDSKIPENSEFFVSLKEPRVQNNLRLDTLEFKQLI HIEHQPNGGASVHICLQ
6520	3	1113	BRKMAEPPSPVHCVAAAAPTATVSEKEPFGKLQLSSRDPPGSL AKKVRTEKKAPRRVNGEGSGGNSRQLQPPAAPSPQSYGSPAS WSFAPLSAAPSPPSSRSSFSFSAGTAVPSSASASLSQPGPRKLL VPFTLLHAQPHHLLLPAAAAASANAKSRPKKREKERRRHGL GGAREAGGASREENGVEVKPLPRDKIKDKIKERDKEKEREKKHK VMNEIKKENGVEVKILLKSGKEKPKTNIEDLQIKKVKKKKKKKHK ENEKRRPKMYKSIQITCSGLLTDVEDQAAGILNDNIKDYVG KNLDTKNYDSKIPENSEFFVSLKEPRVQNNLRLDTLEFKQLI HIEHQPNGGASVHICLQ
6521	184	1798	KLFKMATDTSQGLVHPKALPLIVGAQLIHADKLGEKVEDSTMP IRRTVNSTRETTPPKSLAEGEEKEPDISSEESVSTVEEQENE TPPATSSAEQPKGEPENEKEENKSEETKKDEKQSKKEKK VKKTIPSWATLSASQLARAQKQTPMASSPRPKMDAILTEAIKAC FOXSGASVVAIRKYIIHKYPSLELERRGYLLKQALKRELNIRGVI KQVKGKGASGSFVVVQKSRKTPQKSRNRKNRSSAVDPEPQVKLE DVLPLAFTRLCEPKEASYSILIRKYVSQYYPKLRVDIRPQLLKNA LQRAVERGQLEQITGKGASGTFQLKKSKEKPLGSGSLMEYAILS AIAAMNEPKTCSTTALKKYVLENHPGTNSNYQMHLKKTLOKCE KNGWMEQISGKFGSGTFQLCFPPYPSPGVLFPKKEPDDSDREDE DEDESSEEDSEDEPPPKRRLQKKTPAKSPGKAASVKQSGSKPA PKVSAQQRGKARPLPKKAPPAKTPAKKTRPSSTVIKPKSGGSS KKPATSAKKE
6522	1042	391	NKWLRLSPSRSHRTPESEGRVLSLFRLLPPPGMALSGSTPAPCWEED

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			ECLDYTGMLSLHRMFVVGQQLTECELELLAFLLEAPGAAGGLSRARSGKLKLELERRGQCDESNLRLLGQLLRVLARHDLPLHLARKRRRPFVSPERYSYGTSSSSKRTGSCRRRRQSSSSANSQQGSPPTKRQRSSRGRPSGGARRRRRGPQPHPSSSQSPDDLPLKAK
6523	2	1097	ASQCRRRTAALDSGERIAGRRSPIALAMASNFDIVKQGYVKIRSRKLGIFRRCWLVFKKASSKGPRLEKFPDEKAAAYFRNFHKVTELHNKINITRLPRETKKHAVAIIFHDETSKTFACESELEAEWC KHLCECLGTRLNLDISLGEFDLLAAGVQREONERFNVYLMPTPNLDIYGECTMQITHENIYLWDIHNKVKLVWVPLSSLRRYGRDSTWTFESGRMCDTGEGLFTFTQREGEMIQKVHSATLAIABQHERLMLEMEQKARLQTSLETPMTLSKSI SLPR SAYWHITRQNSVGEIYSLQGNHENRHS DLTGKSKCTSENRFLEENAPLVMYGITHHLFMDTSTCKVVHDL
6524	2	1097	ASQCRRRTAALDSGERIAGRRSPIALAMASNFDIVKQGYVKIRSRKLGIFRRCWLVFKKASSKGPRLEKFPDEKAAAYFRNFHKVTELHNKINITRLPRETKKHAVAIIFHDETSKTFACESELEAEWC KHLCECLGTRLNLDISLGEFDLLAAGVQREONERFNVYLMPTPNLDIYGECTMQITHENIYLWDIHNKVKLVWVPLSSLRRYGRDSTWTFESGRMCDTGEGLFTFTQREGEMIQKVHSATLAIABQHERLMLEMEQKARLQTSLETPMTLSKSI SLPR SAYWHITRQNSVGEIYSLQGNHENRHS DLTGKSKCTSENRFLEENAPLVMYGITHHLFMDTSTCKVVHDL
6525	1	1859	GESPFSEEESEIEFNPSSSGRSARTVSSNSFCDDTGWPSSQSVSPVKTPSDAGNSPIGFCPGSDEGFTRKCTIGMVGEISQSSRYKESKSGLVKPGSEADOFSSSSSTGSI SAPEVHMSTAGSKRSSSRNRGPHGRSNGASSHKPGSSPSSPREKDLLSMLCRNQLSPVNIHPSYAPSSPSSSSNSGSGYKSDCSPIMRRSGRYMSCGENHGVPPNP EQYLTPLQKQEVTVRHLKTKLESERLHERSEIVEIKSOLAR MREDWIEEBCHRVEAQLALKEARKEIKQLKQVIETMRSSLADKD KGIQKYFVDINIQNKLESLLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNFPDLTMADGLSLEEQVTGEGADRELLVGDSIANSTD LFDEIVTATTESGDLELVHSTPGANVLELLPIVMGQEGSVVVERAVQTDVVPYSPAISELIQSVLQKLQDPCPSSSLASPDSEPDSEMFPEPESLSALVVDLTPRNPNSAILSPVETPYANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLVDLLAVAAPVVPVTLWAFSTQRGGTDPVYNIGALLRGCCVVALHSLRRTAFRIKT
6526	2	2034	SGRAGEPEEWRGRQIIDSKETWIPFNSEDSQQLLEAYSSGKGCN GRVVPFTDGGRYDVHLGERMRYAVYWDELASEVRRCTWFYKGDKNKYVPYSESFSQVLEETMYLAVTLDWKKKLESNREIILHNP KLMVHYQPVAGSDDWGSTPMEQGRPRTVKRGVENISVDIHCGEP LQIDHLVFVHVGIGPACDLRFRSIVQCVDNFRSVSLNLLQTHFK KAQENQQIGRVEFLPVNWHSPHSTGVDVDLQRTITLPSINRLRH FINDTILDVFFYNSTPYCQTIQVDTVASEMNRIYTLFQRNPD FGGVSIAGHSLGSLILEFDILTNOKDSLGDIDSEKGSINIVMDQGD TPTLEEDLKLQLSEFFDI FEKEKVDKEALALCTDRDLQETIGIP LGPRKKILNYFSTRKNSMGIKRPAPQASGANIPKESEFCSSSN TRNGDYLDVGIGQVSVKYPRLIYKPEIFFAFGSPIGMELTVRGL KRIDPNYRFPTCKGFENIYHPFDPVAYRIEPMVVPVGEFEPMLI PHHKGRKRMHLELREGLTRMSMDLKNLLGSLRMAWKSFTRAPY PALQASETPETEAEPESTSEKPSDVNTEETSVAVKEEVLPIINV GMLNGGQRIDYVLQEKPIESFNEYLFALQSHLCYWESEDTVLLV LKEIYQTQGIPLDQPLQ
6527	1	922	GWVFLSLRILPSDACKIYKQGINIRLDTTLIDFTDMKCQRGDL SFIENGDAAPSESFVVL DNEQKVYQRIHHEESEMETEEEDVILMS SDIYSATLSTKSISFTRAQTGWLFREDKTERVGNFLADFYLVNG

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			LVLESRRKRRHLSEEDILRNKAIMESLSKGGNIMEQNFEPIRRO SLTPPPQNTITWEEYISAENGKAPHLGRELVCESKKTTFKATIA MSQEFPLGIELLLNVLEVVPFKHFNKLREFVQMKLPFGFPVKL DIPVFPITITATVTFQEFYDEFDGSIPTIPDDYKEDPSRPPDL LTGPAAAEPRCAADAGMKRALGRRKGWVLRRLKILFCVLGLYIA IPFLIKLCPGIQAKLIFLNFRVVPYFIDLKKPDQGLNHTCNVY LQPEEDVTIGVWHTVPAVWWKNAQGGKQDMWYEDALASSHPILY LHGNAGTRGGDHRVELYKVLSSLGYPVTFDYRGWGDVSGTPSE RGMTYDALHVDFDWIKARSGDNVPYIYWGHSLSGTGVATNLVRLCE RETPPDALILESPTFNIREAKSHPPFSVIYRYFPGFDWFFLDPI TSSGKIFANDENVKHISCPILLILHAEDDPVVPFQGRKLYSIAA PARSFRDFKQVQFVPFHSDLGYRHKYIYKSPELPRILREPLGKSE PEHQH
6528	1	1073	THIRYNKIGVVKMTSCGNEFVETLKKIGYPKADNLNGEDFDWLF EGVEDSEFLKWFVCGNVNEQNLSEERELEAFSILQKSGKPILEGA ALDBALKTCKTSDLKTPRLDDKELEKLEDEVQTLKLKLNKIQOR RNKQOLMASVTSKSLRLNAKEEATKKLKQSQGILNAMITKIS NELQALTDEVTLQMMFFRHSNLGQGTNPVFLSQFSLEKYLQSE EQSTAALTLYTKQFFQGIHEVVESSNESQFFNFKIQTPSICD NQEILEERRLEMARLQLAYICAHQLIHLKASNSSMKSSIKWAE ESLSHLSLTKAVDKENLDKISSLTSEIMKLEKVTQIKDRSLPA VRENAQLLMPVVKGDFDLQIAKQDYTTARQELVLNQLIKQKA SFELLQLSYEIELRKHRIYQLENLVQELSQSNMMLYKQLEML TDPVSQSQINPRNTIDTKDYSTRHYQLVLEGENKKKELFLTHGN LEEVAEKLKQNISLVQDQLAVSAQEHSSFFLSKRKNDVMDLCDTL YQGGNQLLLSDQELTEQFHKVESQNLKLNHLLTDILADVTKRK TLANNKLHQMREFYVYFLKDEDYLDKDIVENLETQSKIKAVSLZ D
6529	363	2215	GAAHGGAIVQVHPLLPSSSTIMIHDLCLVFPAPAKAVVYVSDIQ ELYIRVVDKVEIGTKVYKAYVRVLDLHKKPFLAKYFFPMDLKLRA ASPIITLVALDEALDNYTITFLIRGVAIGQTSLTASVTNKAQOR INSAPQQIEVFPPFRLMPRKVTLIGATMQVTSBGGPQPPQSNIL FSISNESVALVSAAGLVQGLAIGNGTVSGLVQAVDAETGKVVII SQDLVQVEVLLRAVRIRAPIMRMRTGTQMPIYVTGITNHQNP SFGNAVPGTLFHWSTKRDVLDLGRHHEASIRLPSQYNFAMNV LGRVKGRTGLRAVVKAVDPTSGQLYGLARELSDEIQVQVFEKLQ LLNPEIEAEQILMSPNSYIKLQTNRDGAASLSYRVLDPGEKVPV VHVEKGFSLAGSMIGTSTIEVIAQEPFGANQTIIVAVKVSFVS YLRVMSFVLHTQNKALVAVPLGMTVFTVHFHDSGDFVFAH SSVLNPFATNRDDFVQIGKGTNNTCVVRTVSGLTLLRVWDAKH PGLSDFMPLPVLQAIPELSPGAMVVGDLCLATVLTSLGLSGT WSSSANSILHIDPKTGAVARAVGSVTVVYEVAGHLRTYKEVVV SVPQIRIMARHLHPITQTSFQBATASKVIVAVGDRSSNLRGECTPT QREVIQALHPETLISCSQFKAFAVDFPSQDVFTVEPQFDALG QVFCSTIMHRLTDKQRKHLMSKKTALVVSASLSSSHFSTEQVGA EVFPSPGLFADQAEILLNHYTSSEIRVFGAPEVLENLEVKSQS PAVLAFAKEKSGWPSFITYTVGVLDPAAGSQGLSTTLTFSSP VTNQAIAPVTIVAFVVDRRGPGPYGASLFGHFLDSYQVMFFTLF ALLAGTAVMIIAYHTVCTPRDLAVPAALTFRASPGHSPHYFAAS SPTSPNALPPARKASPPSGLWSPAYASH
6530	128	2986	PSASIPPSASDPVPDITRCHFLVEDPSVGCISGSEKCTISSS SLCMVITIYYDVKVRFIYRGCGQYISYRCQEKRTYFAEYWYQA QCCQYDYCNSSWPQLQSSLEPEPHDRPLALPLSDSQIQWYQAL NLSLELPNFHAGTEPDGLDPMVTLNLNLGLSFELRRMYLFLNS SGLLVLPQAGLLTPHPS
6531	845	1425	AAGPPSEVVNQDSLFFPEPEPGAPQVLLGPGQGLIKGVAPPTL
6532	2	954	

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			ITDSTGTHLVLTVTNKNHSPGLSRGSPQQPSSQPGSFAPAPSA QMDLEHPLQPLFGTPTSLKKKEPPGYEEAMSQQPKQENGSSSQ QMDDLFDILIQSGEISADFKPEPSPSLPGKEKPSPKTVCWSPLAAQ PSPSAELPQAAPPPGSPSLPGRLEDFLESSTGLPLLTSGHDGP EPLSLIDDLHSQMLSSSTAILDHPPSPMDTSELHFVPEPSSMTGL DLADGHLDSMDWLELSSGGFVLSLAPLSTTAPSLFSTDFLDGHD LQLHWDSCSL
6533	1798	373	STISWLARVEPPRRSSGVGAARLRFPGGSRPLRARACVLALAVL ALLERNMADSMSAHSMLCERIAIAKELIKRAESLSRSRKGKIEG GAKLCSKLKAEKFLQKVEAGKVAIKESHLOSTNLTHLRAIVES AENLEEVSVLVHVFYGTDTLGEKQTLVVDDVANGGHTVWKAIGR KAEALHNIWLGRGQYGDKSIEQAEDFLQASHQQPVQYSNPHII FAFYNSVSSPMAEKLKEMGISVRGDIVAVNALLDHPEELQPSSES ESDDEGPPELLQVTRVDRENILASVAFPTBIKVVDVCKRVNLDITT LITYVSALSYGGCHFIKFKVLTEQAEQERKEQVLPQLEAFMKD KELFACESAVKDFQSILDTLGGPGERERATVLIKRINVVPDQPS ERALRLVASSKINSRSLTIFGTGDTLKAITMTANSFVRAANNO GVKFSVFIHQPRALTESKEALATPLPKDYTTDSEH
6534	47	596	KATRFISAAFVVLNKGQVSPAKLPHTSWSWSLQTLFSLFGDLA EKSQCFPCSAMLELIPLLGIHFVLTARASQSVTQPDIIHITVS EGASLELRNCNYSYGATPYLFWMERTVEEAFILLVCLKPWRVASS LEKKEKEDESFQLLGSRYNVLKAHCLLPLIRWLTSGDSLSAQ PHCPQGL
6535	250	964	LIKTFFRDVAIQRDLLPKENLETLLTAFLEIDKAFSSSHARLS ADATLLTSGTTATVALLRDGIELVVASVGDSRAILCRKGKPMKL TIDHTPERKDEKERIKKCGGFVAWNSLGQPHVNGRLAMTRSIGD LDLKTSQVIAEPETKRIKLHADDSEFLVLTDDGINFMVNSQEIW DFNQCHDPAEAAHVAVEQAIQYGTEDNSTAVVVPFGAWGKYKN SEINFSSRSFASSGRWA
6536	242	1174	SLVKEMTNQYGLIFKQEQAHDDAISVAVGNTKKNSETVVTGS LDDLKVKVWKRDRERLDLQWSLEGHQGVVSDISHTLPIAASS LDAHIRLWDLENGKQIKSIDAGPVDATLAFSPDSQYLATGTHV GKVNIFGVESGKKEYSLDTRGKFILSIAYSPDGKYLASGAIDGI INIFDIATGKLLHTLEGHAMP IRSLTFSPPDSQLLVASDDGYIK IYDVQHANLAGTSLGHASWVNLVAFCDPDTHFVSSSDKSVKVV DVGTRTCVHTFFDHQDQVWGVKYNNGSKIVSGDDQEIHIYDC PI
6537	1638	921	NRFNPPPTQGPDEFSLVYRPDVPDEVAKDASFRNYTSGPLLDREV FTTYKLMHHTQTVDFVRSKHAQFGGFSYKMTVMEAVDLLDGLV DESDPPVDFFPNSFHAFTAEGRIRKAHPDKDWFHLVGLLHDLGKV LALFGEQWAVVGDTPFVGCRPOASVVFCDSFQDNPDLDQPRY STELGMYQPHCGLDRLVMSWGHGGEARGGQWGGGGRWGTVGGGG AEAVPAGDTLSFQSTCTR
6538	3345	2412	PYLYDFLDALITCQTAPEEAFIKLDGLAGMLTEQLRRLTKQVQE ARHNRDDEAIKAVNEYDETMEKYI PVLMAQAKIYWNLENYPMV EKI FRKSVEFCNDHDVWKLNVAVLFMQENKYKEAIGFYEPVVK KHYDNILNVSAILVLANLCVSYIMTSQNEKAELMRKIEKEEBQL SYDDPNRKMVHLCIVNLVIGTLYCAKGNIEFGISRVIKSLEPNY KKLGTDTWYAKRCFLSLENMSKHMIVIHDSVIEQECVQFLGHC ELYGTNIPAVIEQPLEEERMHVGNKNTVTDESRLKALIYRIIGW NK
6539	218	339	FLGAASPHPHFSSSLAPHPDQPEFTPVQDELEAMELWGPV
6540	3	391	LERLWLLLRPEDAMAECPTEGAVTDHPRDLWAWKFFVYLDE KQHAWLPLTIEIKDRQLQRLVLLRRDVLVLRPMTPTQIGPSLLP IMWQLYPDGRYRSSDSSFWRVYHIKIDGVEDMLLELLPDD

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6541	1165	536	RTLVQRRLMLLRKPARGRDLRGRGRGTPRGGRKGLLPTPDEFF RFEGGRKPDSDWGNREPGPGHEHFRDTPRDPHPPHDGHSASRE RSSSLQGMMDASLPKRKPWHGPGTSEHREMEAPGGPSEDGGRG KGRGGPGPAQRVPKSGRSSSLDGEHHDGYHRDEFFGGPPGSGT SRGGRSGSNWGRGSMNSGPPRRGASRGGGRGR
6542	3	3775	SWPRGRGETGGHPGALRTRTMQKSVRYNEGHALYLAFLARKEGT KRGFLSKKTAESRWHEKWFALYQNVLFYFEGEQSCRPAAGMYLL EGCSCERTPAPPAGAGQGQGVDRDALDKQYYFTVLFGEHGGKPLE LRCEEEQDGKEWMEAIHQASYADILIEREVLMMQKYIHLVQIVBT EKIAANQLRHQLEDQDTEIERLKSEI IALNKT KERM RP YQSNQE DEDPDIKKIKKVQSFMRGWLCKRKWKTIQDYICSPHAESMRKR NQIVFTMVEAESEYVHQYILVNGFLRFLRMAASSKKPPISHDD VSSIFLNSETIMFLHEIFHQGLKARIANWPTLILADLFDILLPM LNIYQEFVRNHQYLSQVLANCKQNRDQDKLLKQYEANPACEGRM LETFLTYPMFQIPRYIITLHELLAHTPEHVERKSLFAKSKLE ELSRVMHDEVSDTENIRKNLAIERMIVEGCDILLDTSTQTFIRQG SLIQVPSVERGKLSKVRGSLSLKKEGERQCFLFTKHFLICTRS SGGKLLHLLKTGGVLSLIDCTLIEEPDASDDSKSGSQGVFGHLD KIVVEPPDRAAFTVLLAPSRQEKAAWMSDISQVDNIRCNGLM TIVFEENSKVTVPBMKSDARLHKDDTDICFSKTLNSCKVPQIR YASVERLLERLTLDRFLSIDFLNTFLHTYRIFTTAAVVLGKLS IYKRPFTSIPVRSLELFFATSONNRGEHLVDGKSPRLCRKFSSP PPLAVSRTSSPVRARKLSLTSPLNSKIGALDLTSSSPPTTTQS PAASPPPHGTQIPILDLSRGLSSPEQSPGTVEENVNDNPRVDLCNK LKRSIQKAVLESAPADRAGVESSPAADTTLSPCRSPTPRHLR YRQPGGQTADNAHCSVSPASAFAIATAAAGHGSPPGFNNTERTC DKEFI IRRATNRVLNLRHWSKHAQDFELNNELKMNVLNLE EVLDPDPLLQERKAAANILMALSQDDDDIHLKLEDI IQMTDC MKAECFESLSAMELAEQITLLDHVIFRSIPYEEFLGQGWMLDK NERTPYIMKTSQHFNDSNLVASQIMNYADVSSRANAIEKWAV ADICRCLHNYNGVLEITSALNRSATYRLKKTWAKVSKQTKALMD KLQKTVSSEGRFKNLRETLKNCNPPAVPYLGMYLTDLAFIEEGT PNFTEGLVNFSSKMRMISHIIREIRQFQQTSTYRIDHQKVAQYL LDKDLIIDEDTLVELSLKIEPLPA
6543	1857	950	FVSGCGRAGIGLSWAMAAEARVSRWYFGLASCGAACCTHPLDL LKVHLQTOQEVKLRMTGMALRVVRTDGILALYSGLSASLCRQMT YSLTRFAIYETVRDRVAKSGQGPLPFHEKVLGSGVSGLAGGFVG TPADLVNVRMNDVKLPQGGRRNYAHALDGLYRVAREEGLRRLE SGATMASSRGALVTGQLSCYDQAKQLVLSTGYLSDNIFTHFVA SFIAGGCATFLCQPLDVLKTRLMNSKGEYQGVFHCVAETAKLGP LAFYKGLVPAGIRLIPHTVLTFFVLEQLRKNFGIKVPS
6544	630	79	PSPCFIRSRLDQGPWMAGLEAWLSQNFSLHQPSRVRVRRASIS EPSDTPPEPRTLNPSAGWFVQHPHELELMSSFRERFGRNWLQY RSHLEPSGNPLPATPTTSAPSAPPASSQGPDTAFRPPSPQEAR GPQESPQKMSEEVRAEPQEEEEKEGKEKEEGEMAPLPEAHIG EGKQKECP
6545	176	560	PPHSHAALLPAAMTPLLTLILVVLMLPLAQALDCHVCAYNGDN CFNPMRCAMVAYCMTTRTYTPTRMKVSCKVPCFETVYDGY SKHASTTSCCQYDLNGTGLATPATLALAPILLATLWGLL
6546	1657	364	HLLNGLDEVAFFVADLGAIVRKHFCKLCLPRVRPFYAVKCN SPGVKVLQAQLGLGFSKANKAEMELVQHIGIPASKIICANPKQ IAQIKYAAKHGIQLLSFDNEMELAKVVKSHPSAKMVLCIATDDS HSLSCLSLKFGVSLKSCRHLLNNAKKHHEVVGVSFHIGSGCPD POAYAQSADARLVFEMGTELGHKMHVLDLGGGFPFGTEGAKVRF EETASVINSALDYFPEGCGVDIFAELEGYYVTSAPTVAVSI KKEVLLDQPGREEENGSTSKTIVYHLDEGVYGFNSVLPDNI

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6547	1	541	TPILQKKPSTEQFLYSSSLWGPVAVDGCDCVAEGLWLPQLHVGDW LVFDNMGAYTVGMGSPFWGTQACHITYAMSRVAVEALRRQLMAA EQEDDVEGVCKPLSCGWEITDTLCVGFVFTPASIM LHASKYLAPALCSQPGMMRCCRRCCCRQPPHALRPLLLPLVLL PPLAAAAAGPNRCDTIYQGFACILRLGDSMGRGGELETICRSW NDFHACASQVLSGCPPEAAAVWESLQEARQAPRPNNLHTLCGA PVHVRERGTGSETNQETLRATAPALPMAPAPLLAALALAYLL RPLA
6548	2	219	FVSRLSVRDVRFPTFLGCHGADAMHTDPDYSAAYVPIETDAEDG IKCGGITFTLKGTEVVELKILSRFQNA
6549	73	1490	ETGRVCEBAPACGSRSSRRRRKEAAGIPTPSFSSSSPTSSRPA ARAFSAKAPARLSRPRAREEPPDPGRRYIQBEIIQARKHKLIKMC SSVAAKLWFLTDRIREDYPOKEILRLAKKACCEELDPRAVVM DEVVLTIEQNLGLRINGELITAYPQVVVVVRVPTPWVQSDSDIT VLRHLEKMGCRMLNRPQAILNCVNKFWTQFELAGHGVPLDPTFS YGSHENFAKMIIDEAEVLEFPMVVKNTRGHRGKAVFLARDXKHLA DLSHLRHEAPYLFQKYVKESHGRDVRVIVVGGRVVGTMLRCST DGRMQSNCSLGGVGMCSLSEQGQLAIQVSNILGMDVCGIDLL MKDDGSFCVCEANANVGPIAFDKACNLVAGIADYASLLPSP RLTRRMSLLSVVSTASETSEPELGPASTAVDNMSASSSSVSDS PESTERELTKLPGGLFNMNQLLANEIKLLVD FRVSRDGDADCGTEQMGLAMEHGGSSARAGSSRGWCYYLRYFF LFSVLIQFLIILGLVLFMVYGNVHVSTESNLQATERRAEGLYSQ LLGLTASQSNLTKEINFTTRAKDAIMQMWLNARRDLDRINASFR QCQGRVITYTNNQRYMAAIIILSEKQCRDQFKDMNKS CDALLFML NQKVKTLEVEIAKEKTICTDKESVLLNKRVAEBQLVECVKTR E LQHQRQLAKEQLQKVQALCLPLDKDKFEMDLRNLWRDSIIPRS LDNLGYNLYHPLGSELASIRACDHMPSLMSSKVEELARSLRAD IERVARENSDLQOKLEAQQLRASQEAQKQVKEAQAAREAKLQ AECSROTQLALEKAVLRKERDNLAKELEKKREAEQLRMELAI RNSALDTCIKTKSQPMMPVSRPMPGPVNPQPIDPASLEEFKRI LESQRPAGIPVAPSSG
6551	157	748	IQPPDPRNMTLAAYKEKMKELPLVSLFCSCFLADPLNKSSYKYE ADTVDLNWCVISDMEVIELNKCTSGQSFEVILKPPSFDGVPEFN ASLPRRRDPSLEEIQKLEAAEERRKYQEAELLKHLAEKREHER EVIQKAIENNNFIKMAKEKLAQKMESNKENREAHLAAMLERLQ EKDKHAEVVRKNKELKEEASR
6552	157	748	IQPPDPRNMTLAAYKEKMKELPLVSLFCSCFLADPLNKSSYKYE ADTVDLNWCVISDMEVIELNKCTSGQSFEVILKPPSFDGVPEFN ASLPRRRDPSLEEIQKLEAAEERRKYQEAELLKHLAEKREHER EVIQKAIENNNFIKMAKEKLAQKMESNKENREAHLAAMLERLQ EKDKHAEVVRKNKELKEEASR
6553	2	1807	FWSKMAAHSYGRVNLNVLREAVRRELREFLDKAGSKAIVWD BYLTGPFGLIAQYSLLKEHEVEKMTFLKGNRLPAADVKNIIFFV RPRLBLMDIIAENVLSEDRRGPTDRDFHILFVPRRSLCEQRLKD LGVLGSFIHREBYSLDLIPFDGDLSSMESEGAFFKCYLEGDQTS LYHAAKGLMTLQALYGTIPQIFGKGEARQVANMMIRMKREFTG SQNSIFPVFDNLLLDNRNVDLLTPLATQLTVEGLIDEIYGIQNS YVKLPPEKFAPKKQDGGKDLPTAKKLQNLNSAEELYAETIRDN FNAVGSVLSSKKAKIISAFAEERHNAKTVEIKQFVSQPLPHMQAA RGSANHTSIAELIKDVTTSSEDFDKLTVEQEFMSGIDTDKVN YIEDCIAQKHSILKVLRLVCLQSVCSNGLKQKVLDDYKREILQ YGYEHILTNLKAGLLKPKQTGGRNNYPTIRKTLRLWMDVNE QNPTDISYVYSGYAPLSVRLAQLLSRPGWRSIEEVLRIPLGPHF EERQPLPTGLQKKRQPGENRVTLIFFLGGVTFABIAALRFLSQL EDGGTEYVLIATTKLMNGTSWIEALMEKPF

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6554	119	1244	FEMGSQSVESGALHVIVGGGFGGIAAASQLQALNVFMLVDM KDSFHHNVAALRASVETGFAKKTIFISYSVTFKDNFRQQLVVGID LKNQMVLQGGGALPFSHLILATGSTGPPGKFNEVSSQQAIIQ AYEDMVRQVQSRFIVVVGGSAGVEMAAIBIKTEYPEKEVTLIH SQVALADKELLPSVRQEVKEILLRKGVLQLLSERVSNLEELPLN EYREYIKVQTDKGTEVATNLVILCTGIKINSSAYRKAFESRLAS SGALRVNEHLQVEGHSNVYAIGDCADVTPKMAVLAGLHANIAV ANIVNSVKQRPLQAYKPGALTFLLSMGRNDGVGQISGFYVGRLM VRLTKSRDLFVSTSWKTMRSPP
6555	1552	498	IHMALLRKINQVLLFLLIVTLCVILYKVKHKGTVPKNDADDESE TPEELEEEI PVVICAAGRGMATMAAINSISNTDANILFYVVG LRLTLTRIRKWIHSKLEINFKIVEFNPMGLKGKIRPDSSRPE LLQPLNFVRFLPLLIHQHEKVIYLDLDDVIVQGDIIQELYDTTLA LGHAAAFSDDCDLPSAQDINRLVGLQNTYMGYLDYRKKAIKDLG ISPSTCSFNFPGVIVANMTWKHQRITKOLEKWMQKNVEENLYSS SLGGGVATSPMLIVFHGKYSTINPLWHIRHLGWNPDARYSEHFL QEAKLLHWNGRHKPWPDPFVHNDLWESWFPDPAGIFKLNHHS
6556	241	1449	ASLCKGCFVTHVLVITLPSLQSPPTFGFLDDIDGVLVRGHRVI PAALKAFRLVNSQGLRVPVVFVTNAGNIIHQSKAQELSAALLG CEVDADQVILSHSFMKLFSEYHEKRLVSGGQFVMENAAQGLGFR NVVTVDLRLMAFLLDMVDLERRLKTTPLRNDFPRIEGVLLLG EPVRWETSLQIMDVLLSNGSPGAGLATPPYPHLPVLASNMDDL WMAEAKMPRFHGHTFLCLETIYQKVTGKELRYEGLMGKPSILT YQYAEGLIRQAERRGWAAPIRKLYAVGDNPMSDVYGANLFHQY LQKATHDGAPELGAGGTROQQPSASQSCISILVCTGVYNPRNPQ STEPVLGGGEPPFHGHRDLCSFPGLEASHVVDVNEAVQLVFR KEGWALE
6557	2598	1534	RMCGRTSCHLPRDVLTRACAYQDRRGQRLPEWRDPDKYCPSPYN KSPQSNPVLRLHFEKDADSSERIAPMRWGLVPSWFKESDP SKLQFNTINCRSDTVMEKRSFKVPLGKGRRCVVLADGFYEWQRC QGTNRQRPYFIYFPQIKTEKSGSIGAADSPENEXVWDNWRLLT MAGIFDCWEPPEGGDVLYSYTIITVDSCKGLSDIHRMFAILDG EEAWSKWLDFGEVSTQEALKLIHPTENITFAVSSVNNRNNT PECLAPVDLVKKELRASGSSQRMQLQWLATKSPKKEDSKTPQKE ESDVPQWSSQFLQKSPLPTRKGTAGLLEQLKREKEEPVAKRP YSQ
6558	21	1138	PHGRRRGGRKMELGSCLEGGREAAEEEGEPEVKRRLLCVEFAS VASCDAAVAQCFLAENDWEMERALNSYFEPVVEESALERRPETI SEFKTYVDLTNEETDSTTSKISPSDQTQENGSMFSLITWNID GLDLNLSERARGVCSYLALYSPDVI FLQEVIPPYYSYLKKRSS NYEII TGHEGYFTAIMLKSRVKLSQEIIPFPSTKMNRLLC VHVNVSGNELCLMTSHLESTRGHAAERMNQKMLVKKMQEAPES ATVIFAGDTNLRDREVTRCGGLPNIVDVWEFLGPKPKHCQYTD TQMNSNLGITAAACKLRFDRIFFRAAEBGHII PRSLDLLGLEKL DCGRFPSDHWGLLCNLDIIL
6559	3	364	GPESGLPTRPKKLANQTFIAMDCCASRSCSVPTGPATTICSS DKSCRCGVCLPSTCPHTVWLEPTCCDNCPPCHIPQPCVPTCF LLNSCQPTPGLETNLTTFTQPCCEPCLPRGC
6560	3	1435	TATSGGIWLRKRWCHWRPLPQSCVGTGGGLQVRDTSSRIAGK GVDHTKMSLHGASGGHERSRDRRSSDRSDSSHERTESQLTPC IRNVTSPTQRHHVEREKDHSSSRPSSRPQKASPNGISAGNS SRNSSQSSSDGCKTAGEMVVFYENAKEGARNIRTSERVTLIVD NTRFVVDPSIFTAQPNMLGRMFGSGREHNFTRPNEKGEYEVAE GIGSTVFRAILDYKGTGIRCPDGISIPELREACDYLCISFEYS TIKCRDLSALMHLSNDGARRQFEFYLEEMILPLMVASAQSGER ECHIVVLTDDDDVVDWDEEYPPQMGEYSQIIYSTKLYRFKYIE

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6561	3	1086	NRDVAKSVLKERGLKKIRLGIEGYFTYKEKVKRPGGRPEVIYN YVQRPFIRMSWEKEEGKSRHVDFOCVKSKSITNLAAAADIPQD QLVVMHPTPQVDELDILPIHPPSGNSDLDPDAQNPML PGRFRFRKESSSSRWFPADCLLGLRGPASSLLSPSPSPWSPSHS PCMAALTDLSEMYRNFKCNLVGNLSEKYVFTGCDSGGPNLL AKQLVDRGMQVLAACFTEEGSQKLQRDTSYRLQTTLLDVTKSES IKAAQWVRDKVGEQGLWALVNNAGVGLPSGPNWLT KDFFVKV INVNLVGLIZVTLHMLPMVKRARGRVNMSSSGRVAVIGGGYC VSKFGVEAFSDSIRRELYYFGVKVCIIEPGNYRTAILGKENLES RMRKLWERLPQETRDSYGEDYFRITYDKLKNIMQVAEPVRVDRI NSMEHAIVSRSPRIYRNPGLDAKLLYIPLAKLPTPTDFILSRV LPRPADSV
6562	1	1562	MSTLYDIRAHKAQLLRFFASSDSNKALEQRRLHTPKLEHLDRV LYEWFLGKRSEGVFVSGPMLIEKAKDFYEQMLTEPCVFSGGWL WRFKARHGIKKLDASSEKQSDADHQAABQCAFFRSLAAEHGLSA EQVYNADETGLFWRCLPNPTPEGGA VPGPKQKDRILTLMCANAN TGSHRLKPLAIGKCSGPRAFKGIQHLEFVAYKAQGNWVDKEIFS DWFHHIFVPSVREHFRITIGLPEDSKAVLLLDSSRAHPQEAELVS SNVFTIFLPASVASLVQPMEQGIRRD FMRNFINFPVPLQGGPHAR YNMNDAI FSVACAWNAPSHVFRRAWKLPWSVAFAEGSSSEEE LEAECFFPVKPHNKSFAHILELVKEGSSCPQLRQRQAASWGVAG REAEGGRPPAATSPA EVVWSSEKTPKADQDGRGDPGEGEVAVAE QAAVAFDAVLRFAERQPCFSAQE VGLRALRAVFRSQQVRRRR GALGAVVKVEALQEGPGGCGATAQSFLPCSSTAGDN
6563	1319	2694	LARPAQPVLLREPEGAGPPVPAGHLVHHLQGGHLRERAHDPLEA HEHPLPCDQMFWRQMGHLMVANSRGVWVGIGYDHTAWVYTG GYGGGCFQGLASSTSNITYTQSDVKCVHIYENQRWNPVTGYTSRG LPTDRYMMSDASGLQECTKAGTKP PSLQWAWVSDWFDVFSVPGG TDQEGWQVADDFPASYHGSKTMKDFVRRRCWARKCKLVTS GPWL EVPPIALRDVSIIPESPGAEGSGHSIALWAVSDKGDVLCRLGVS BLNPAGSSWLVHVGTDQPFASISIGACYQVWAVARDGSAFYRGVS YPSQPADGCWYHIPSPPRQLKQVSAGQTSVYALDENGNLWYRQ GITPSYPQSSWEHVSNNVCRVSVG PLDQVWVIANKVQGSLSLS RGTVCHRTGVQPHEPKGHGWDY GIGGGWDHISVRANATRAPRSS SQEQEPSAPPEAHGPVCC
6564	1	975	APGSCALWSYCGRGWSRAMRGCOQLLGLRSSWPGDLLSARLLSQE KRAAETHFGFETVSEBEKGGKVYQVFESVAKYDVMNDMMSLGI HRVWKDLLLWKMHPLPGTQLLDVAGGTGDI AFRFLNYVQSQHQR KQKRLRAQQNLSWEEIAKEYQNEEDSLGGSRVVCDINKEMLK VGGKALAQGYRAGLAWVLGDAEELPFDDDKFDITYIAFGIRNV THIDQALQEAHRVLKPGGRFLCLEFSQVNNPLISRLYDLYSFQV IPVLGEVIAGDWKSYQYLVESIRRFPSQEEFKDMIEDAGFHKVT YESLTS GIVAIHSGFKL
6565	1464	999	RSAVANGLTKRRMGLKNGRYISLILAVQIAYLVQAVRAAGKCD AVFKGFSDDLKLGDSMANYPOGLDDKTNIKTVCTYWEDFHSCT VTALTD CQEGAKDMWDKLRKESKNLNIQGSILFELCGSGNGAAGS LLPAFPVLLVSLAALATWLSF
6566	3	1385	KYESAOPGGTQPEPGLGARMATHKALVMCLGLPLFLFPGAWAQQ HVPPGCSQGLNPLYNLCDRSGAWGIVLEAVAGAGIVITFVLT IILVASLPFVQDTKKRSLLGTVFFLLGLTGLFCLVFACVEKPDF STCASRRFLFGVLF AICFSCLAHV FALNFLARKNHGPRGWVIF TVALLLTVEVIINTEWLIITLV RGS GEGGPQGNSSAGWAVAS P CAIANMDFVMALIYVMLLLLGAF LGAWPALCGRYKRWKRGV FV LLTTATSVAIWVWVIMYTYGNKQHNSPTWDDPTLAIALAANAN AFVLFFYVIEVVSQVTKSSPRQS YQGDMPTRGVGYETILKEQKG QSMFVENKAFSMDEPVAARKRPVSPYSGYNGQLLTSVYQPTMAL

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			MHKVPSEGAIDILPRATANSQVMGSANSTLRADMYSQAQSHQA ATPPKDGKNSQVFRNPYVND
6567	125	863	TKRSNLKAYACSIHHIRTMSYVVFVNDSSQTNVPLQACIDGDFN YSKRLLSEGFDPNIRDSRGRTGLHLAAAGNVDICQLLHKFGAD LLATDYQGNTALHLCGHVDTIQFLVSNGLKIDICNHQGATPLVL AKRRGVNKKDVIRLLESEEEQEVKGFNRGTHSKLEMTQTAESESA MESHSLLNPNLQQQEGVLSSFRRTTWQEFVEDLGFWRVLLIFVI ALLSLGIAYVSVGLPFVENQPELVH
6568	3	1183	HASDRLLVLPDNYSHFSQASANLQGPSRTTELPHFTLASISSPM LEGAEIYFNVDHGYLEGLVRGCKASLLTQQDYINLVQCETLEDL KIHLQTTDYGNTFLANHTNPLTVSKIDTEMKRRLCGEFYFRNHS LEPLSTFTLYMTCSYIMDNVILLMNGALQKKSVEILGKCHPLG RFTMEAVNIAETPSDLFNAILIETPLAPFFQDCMSENALDELN IELLRNKLKSYLEAFYKFKCNHGDVTAEMVCPILEFEADRRRAF IITLNSFGTELSKEDRETLPTFGKLYPEGLRLLAQAEFDQMK NVADHYGVYKPLFEAVGGSGGKTLEDVFYEREVQMNVLAFNRQF HYGVFYAYVKLKEQEIRNIVWIAECISQRHRTKINSYIPIL
6569	205	1532	RRRGPPQLRGHGRTPLLCRWRTAGPSSHWEKQARAFQGLRPVDP RMSWLFPLTKSASSSAGSPGGLTSLQQQKQRLIESLRNHSSTI AEIQKDVYRLPPTINNLTININILLPPQFPQEKPVISVYPPIR HHLMDKQGVVYTSPLVNNFTMHSDLGKIIQSLLEDFWKNPPVLA PTSTAPPYLYSNPSGMSPYASQGFPLPPYPPQEANRSITSLSV ADTVSSSTTSHTAKPAAPS*GVLSNLPLPIPTVDASIPTSQNG FGYKMPDVPDAFPELSELSVSQLTDMNEQEEVLEQFLTLPLQK QIITDKDLVKSIEELARKNLLLEPSLEAKRQTVLDKYELLTQM KSTFEKKMQRQHELSESCSASALQARLKVAHBAEESDNIAED FLEGKMEIDDFLSSFMKRTICHCRRAKEKLLQQAIAHMSQFHA PL
6570	330	1304	ARLPRLTFLREGFLYVLLSHWVFGAPRPPASDSWKGLVPSAP PASRKMGSKALPAPILPHPSLQLTNYSFLQAVNTFPATVDHLGG LYGLSAVQTMHMHNTLGYPNVHEITRSTITEMAAQGIUDAR* PPFALPFTTHLEHFKQGAIAHVLPAHKKDRPRDFANLAVAATQ EDPPKMGDLSKLSPLGLGSPISGLSKLTPDRKPSRGRPLPSKTKKE FICKFCGRHFTKSYNLLIHERHTHTDERPYTCDICHKAFRRQDHL RDHRYIHSKEKFFKCQECGKGFQCSRTLAVHKTLMQTSSPTAA SSAAKCSGETVICGGT
6571	169	656	APDMNRKKLQKLTDTLTKNCKHLFRGFDKNDGCVNVLEWIGHL SLFLRGSLEEKMKYCFEVDLNGDGFISKEEMFHLKNSLLKQP SEEDPDEGIKDLVEITLKKMDHDHDKLSFADYELAVREETLLL EAFGPCLPDPKSQMEFEAQVFKDPNEFNDM
6572	49	1646	TPERAQPGALIGAAGCCVCGGRWPRSHERGYSFSSAKMGSKRRN LSCSERHQKLVDENYCKKLHVQALKNVNSQIRNQMVENENDNRV QRKQFLRLQLNEQFELDMEEAIQKAENKRLKELQLKQEEKLAM ELAKLKHESLKDEKMRQQVRENSIELRELEKKLKAAYMNERAA QIAEKDAIKYEQMKRDAEIAKTMMEEHKRIIKEENAAEDKRNKA KAQYVLDLEKQLERQEKKKQRAYEQLLKEKLMIDEIVRKIYEED QLEKQKLEKMNAMRRYIEEFQEQALWRKKREEMEEENRKII EFANMQQREEDRMAKVQENEEKRLQONALTQKLEMLRQRED LEQVRQELYQEEQAEIYKSKLKEAEKKLRKQKEMKQDFEEQMA LKELVLQAAKEEENFRKTMFAEDDRIELMNAQKQRMKQLE HRRAVEKLEERRQQFLADKQRELEEWQLQORRQGFINATIEBE RLKLLKEHATNLLGYLPKGVFKKEDDIDLLGEEFRKVVQRRSEI CEEK
6573	767	275	GGGGGESQSFRAGDGTTPATDCLMYLQGPRLMTQGGYDMVQK LFLDFFRRRLSQRPTAEELQNRNLLKPRNEQEEQEKREIKRRL TRKLSQRPVTEELRERKILIRFSDYVEVADAQDYDRRADKPWTR

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6574	204	1159	<p>LTAADKVSRGECWRVGGRTVCWVSLGSPLSGV</p> <p>LESSVPVSVGVFWACGVSWTGAAGLQDQALSDTMARNAEKAMTA LARFRQAQLEEGKVKERRPFLASECTELPKAEKWRQIIGEISK KVAQIQNAGLGEFRIRDLNDEINKLLREKGHWEVRIKELGGPDY KGVGPKMLDHEGKEVPGNRGKYFGAAKDLPGVRELFEKEPLPP PRKTRAEMLKAIDFEYGYLDEDDGVIVPLEQEYKELRAELVE KWKAREARLARGEKEEEEEEEINIYATTEESDEEGSQEKG GDDSQQKFIHVPVPSQOEIEALVRRKKMELLQKYASETLOAQ SEEARLLGY</p>
6575	117	820	<p>SPALASQSGGITEEKMLEPQENGVIDLPDYEHVEDETFFPPFPFP ASPERQDQEGTEPDEESGNGAPVPPPKRTVTKRNIPKLDQRLI SERGLPALRHVFDKAKFKGKGHEADLKLIRHMEHWAHLRFPK LQFEDPIDRVEYLGSKKEVQTCIKRIRLDLPILHEDFVSNNDV AENNEHDVTS TELDPFLTNLSESEMFASELSISLTEEQQORIER NKQLALERRQAKLP</p>
6576	1	1060	<p>PEPQALVGGKRGALRLVARLVLTVSAPAEVRRRRLRPVLSWMD RETRALADSHFRGLGVDVPGVGQAPGRVAFVSEPGAFSYADDFVR GELLNPLPCVFSSAFTQGWGSRRRRVWTEAGRPDFDHLRTYGDV VVPVANCQVQEYNPNKEHMTLRDYITYWKEYIQAGYSSPRGCL YLKDWHLCRDFFVEDVFTLPVYFSSDWLNEFDALDLDVDDYRFVY AGPAGSWSPFHADIFRSFSWSNVNCGRKKWLLFPPGOEEALDR HGNLPYDVTSPALCDTHLHPRNQLAGPPLEITQEAGEMVFPVSG WHHQVHNLMVCCFSCPLSGAFLQEDGSTTSPLSQPELGWNGVAH G</p>
6577	2271	987	<p>SDRMASDDPDIVIEAMLEAPYKKEEDEQORKEVKKDYPSTNTSS TSNSGNETSGSSTIGETSNRSRDRDRYRRNRSRSPGRQCRHR SRSDRRHSGSESRSRDHREDRVHYRSPPLATGYRYGHSKSPHF REKSPVREFVDNLSPBERDARTVFCMQLAARIRPRDLEDFFSAG GKVRDVRIISDRNSRRSGIAYVEFCIEIQSVPLAIGLTGQRLG VPIIVQASQAENRLAAMANNLQXGNGGPMRLYVGSLLHFNITED MLRGI FEPFGKIDNIVLMKDSITGRSKGYGFIITFSDSECCARAL EQNGFELAGRPMPRVGHVTERLDGGTDITFPDGDQELDLGSAG RFQLMAKLAEGAGIQLPSTAAAAAQAALQLNGAVPLGA LNPAALTALSPALNLASQCLQLSSLFTPTQM</p>
6578	377	1489	<p>PSSSATMNRAPLKRATILHMLTGA SDPSAEAEANGEKPFLLRA LQIALVVS LYWVTSISMVFLNKYLLDSPSLRLDTPIFVTFYQCL VTLLCKGLSALAACCPGAVDFPSLRDLRVARSVLPLSVVFIG MITFNNLCLKYVGVAFYNVGRSLTTFVFNLLSYLLKQTSFYA LLTCGIIIGGFWLGV DQEGAEGTLSWLGTVFGVLA SLCVSLNAI YTKVLPVAVDGSIWRLTFYNNVNACILFLPLLLLGLQALRDF AQLGSAHFWGMMTLGGLPGFAIGYVTGLQIKFTSPLTHNVSGTA KACAQTVLAVLYYEETKSFLWWTSNMMVLGSSAYTWNRGWEMK KTPEEPSPKDSEKSAMGV</p>
6579	2	711	<p>RPPRVWYPELRELSAAAPRWSHRTAPGIMVIFYTSSSVNSSAYT IYMGDKYENEDLIKHGWPEDIWFDVKLSSAHVYLRHLKHGENI EDIPKEVLMDCAHLVKANSIQGCKMNNVNVYTPWSNLKKTADM DVGQIGFHRQKDVKITVEKKVNEILNRLEKTKVERFPDLAEK ECRDREERNEKKAQIQEMKKREEMKKKREMDLRSYSSLMKV ENMSSNQDGNDSDEFM</p>
6580	62	1571	<p>LVALKNWPKGTINIPAPQSPVFGEAVSGVYMMTKVLGMAPVLGP RPPQEQVGPLMVKVEEKEEGKYLPSELMFRQRFRQFGYHDTFG PREALSQRLVLCCEWLREPIHTKEQILELLVLEQFLTILPQELQ AWVQEHCPESAEEAVTLEDLERELDEPGHQVSTPPNEQKPVWE KISSSGTAKESPSSMQPLETSHKYESWGPLYIQESGEEQEF QDPRKVRDCRLSTOHEESADEQKGSSEAGLKGDIISVIANKPE ASLERQCVNLENEKGTKPPLQEQAGSKKGRESVPTKPTGPERRYI</p>

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			CAECGKAFSNSSNLTKHRRTHTGEKPYVCTKCGKAFSHSSNLT HYRTHLVDRPYDCKCGKAFGQSSDLLKHQRMHTEEPYQCKDCG KAFSGKGLIRHYRIHTGEKPYQCNECGKSFQSHAGLSSHQRLH TGEKPYKCEGKAPNHSSNFKHHRITHTGEKPYWCHHCCKTFC SKSNLSKHQHVHTGEGEAP
6581	228	476	RVFLKDLSTPMASNTASIAQARKLVEQLKMEANIDRIKVSKA AADLMAYCEAHAKEDPLLTVPVASENPFREKFFCAIL
6582	1428	718	CFTTKTHCSPVSVPYLSPLVLRKELESLENEGDQVIHTSSFIN QHPPIFWTLVWYFRRLDLPSNLPGLILTSEHCNEGVQLPLSSLS QDSKLVIQLLDNINLHQEPREPLYVSWRNFNSEKSSLSSE QQTSTLVETIRQSIQHNNVLKPINLLSQMKPGMKRQRLYRE ILFSLVSLGRENIDIEAFDNEYGIAYNSLSSEILERLQKIDAP PSASVEWCRKCFGAPLI
6583	487	41	RIFSMTSGRLRWCTWRPATALWSASLRGLTSSMHFSPRSISLP LSMMLSLPSPNTRGLSPTALFRSPDSEHATSCPRHLWRCRAPL RSPSPILGRQLVLRPSPLHVHTHNSGKEVLGLQVQRSRSGTGPAC SQAGSGAVQGGNWCIF
6584	189	1750	PLPMAALGPSSQNVTEYVVRVPINNTKKYNIMAFNAADKVNFA WNQARLERDLNKKIYQEEEMPESGAGSEFNRLREBARKKKYG IVLKEFRPEDQPWLLRVNGKSGRKFKGKGGVINTSYIIFTQ CPDGAFEAFFVHNWYNFTPLARHRTLTAEBAEEWERNKVLNH FSIMQRRLLKDDQDEDEEEKEKGRRKASELRIDHLEDDLEMS SDASDASGEEGGRVPKAKKAPLAKGGRKKKKKSGDDEAFEDS DDGDFEGQEVDMYSDGSSSSQEEPEKAKAPQEEGPKGVDEQS DSSESESEKPEEDKEEEKKAPTPOEKKRKSSEESDSSE ESDIDSEASSAFFMAKKKTPPKRERKPSGSSRGNRPGTPSAE GGSTSTLRAAASKLEQKRVSEMPAAKRLRLDTGPQSLSGKST PQPPSGKTPNSGDVQVTEDAVRRYLTRKEMTTKDLLKKFQTKK TGLSSEQTVNVLAQILKRLNPERKMINDKMHFSLKE
6585	3	1678	GPIRNSRIDDFVGGDPRAEASCSVLHSEKPHAMADSRDPASDQM HWKEQRAAQKADVLTTGAGNPVGDKLNVITVGRPGPLLVQDVVF TDEMAHFDRERIPERVVHAKGAGAFGYFEVTHDITKYSKAKVFE HICKKTPIAVRFTVAGESGADTVRDPGRFAVKFYTEDGNWDL VGNNTPIPFIRDPILFSPFIHSQKRNPQTHLKDPDMVWDFWSLR PESLHQVSFLFSDRGIPDGRHRMNGYGSHTFKLVNANGEAVYCK PHYKTDQGIKNLSVEDAARLSQEDPDYGIRDLEFNAIATGKYP TFYIQVMTFNQAEFFPNFPDLTKVWPHKDYPLIPVGKLVLRN PVNYFAEVEQIAFDPSNMPPGIEASPKMLQGLRFAYPDTHRHR LGPNYLHIPVNCPIYARVANYQRDGPMDQNDQGGAPNYYPNSF GAPEQQPSALEHSIQYSGEVRFRNTANDDNVTQVRAFYVNVLNE EQRKRLCENIAGHLKDAQIFIQKAVKNFTEVHPDYGSHIQALL DKYNAEKPKNAIHTFVQSGSHLAAREKANL
6586	32	804	PLPEQPAESTSTMPVSGTPAPNKKRKS KLIMELTGGGQESSGL NLGKKISVPRDVMLEELSLLTNRGSKMFKLRQMRVEKFIYENHP DVFSDSSMDHFQKFLPTVGGQLGTAGQGFYSKSNRGGSSQAGG SGSAGQYGSQQHHLGSGSGAGGTGGPAGQAGRGGAAGTAGVGE TSGSGDQAGGEGKHITVFKTYISPWERAMGVDPPQKMLGIDLLA YGAKAELPKYKSFNRTAMPYGGYEKASKRMTFQMPKV
6587	75	1117	RRVPSLGKMPCEWDGEHDIETPYGLLHVIRGSPKGNRPAILTY HDVGLNHKLCFNTFFNFEDMQEITKHVVCHVDAPGQQVQASQF PQGYQFPSEQLAAMLPSVVQHFGFKYVIGIGVAGAGAVLAKFA LIFPDLVEGLVLNIDPNGKWIDWAATKLSGLTSTLPTDVLSH LFSQEELVNNTLVQSVRQQIGNVVNQANLQLFWNMYNSRRDL INRPGTVPNAKTLRCPVMLVVGDNAPAEQGVVECNKLDPTTTT FLKMADSGGLPQVTQPGKLTFAFKYPLQGMGYMPSASMTRLARS RTASLTSASSVDGSRPQACTHSESSEGLQGVNHTMEVSC

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6588	137	501	LGLQAQLLELRNNYQLSDELRLKNGVELTSLRQKVAYLDKEFSK AQKALSKSKKAQEVEVLLSENEMLOAKLHSQEEDFRLQNSTLMA EFSKLCSQMEQLEQENQOLKEGAAGAGVAQAGP
6589	2	1405	RPWGSAMATFSRQEFFQQLLQGCCLPTAQQGLDQIWLALLATCLA CRLWLRLGLPSYLKHAFTVAGGFFSLYHFFQLHVMVWVLLSLLC YLVFLCRHSSHRGVFLSVTILYLLMGEMHMDVTVTWHKMRGA QMIVAMKAVSLGFDLDRGEVGTVPSPVEFMGYLYFVGTIVFGPW ISFHSYLQAVQGRPLSCRWLQKVARSLALALLCLVLSTCVGPYL PPYFIPLNGDRLLRNKKRKARGTMVRWLRAVESAVSFHFSNYFV GFLSEATATLAGAGFTTEKDHLEWDLTVSKPLNVELPRSMVEV TSWNLPMSYWLNNYVFKNALRLGTFSAVLVTYAASALLHGFSPH LAAVLLSLAFITYVEHVLRLRLILSACVLSKRCPPDCSHQHR LGLGVRLNLLFGALAI FHLAYLGS LFDVDDDTTBEQGYGMAY TVHKWSELSWASHWTFGCWIFPYRLIG
6590	2177	656	VRAYEHVLSLLENVFTPMFCHRDYFRQLLRGAESPTRNSKLN GSLSLDDFRNTQKRGESEFGISRIGSKI KGVFKSTTMEGAMLPNY GVAEGEDDFIEEGIVMEDDSPVEAVSTPNTPRNLAANKISIPY VDFEEDPSSERKEKKERIPVFCIDVERNDRAVGEHEPHWSVYR RYLEFYVLESKLTEFHGAFFDAQLPSKRIIGPKNYEFLKSKREE FQEYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLG KIIKSVPGKLMKEKGQHLPEFIMNFINSCESPKPKPSRPELTIL SPTSENNKKLFNDLFKNANRAENTERKQONQYFMEVMTVEGVY DYLMYVGRVVFQVPDWLHLLMGTRILFKNTLEMYTDYYLOCKL EQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAQTFEEM MNYIPDLLVKCIGEETKYESIRLLFDGLQQPVLNKLTYVLLDI VIQELFPELNVKQKEVTSVTSWM
6591	2177	656	VRAYEHVLSLLENVFTPMFCHRDYFRQLLRGAESPTRNSKLN GSLSLDDFRNTQKRGESEFGISRIGSKI KGVFKSTTMEGAMLPNY GVAEGEDDFIEEGIVMEDDSPVEAVSTPNTPRNLAANKISIPY VDFEEDPSSERKEKKERIPVFCIDVERNDRAVGEHEPHWSVYR RYLEFYVLESKLTEFHGAFFDAQLPSKRIIGPKNYEFLKSKREE FQEYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLG KIIKSVPGKLMKEKGQHLPEFIMNFINSCESPKPKPSRPELTIL SPTSENNKKLFNDLFKNANRAENTERKQONQYFMEVMTVEGVY DYLMYVGRVVFQVPDWLHLLMGTRILFKNTLEMYTDYYLOCKL EQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAQTFEEM MNYIPDLLVKCIGEETKYESIRLLFDGLQQPVLNKLTYVLLDI VIQELFPELNVKQKEVTSVTSWM
6592	3	1861	APFELGSTITSSGSMIDANLKLQAEQRLKAIVAEKFAIATKEG DLFPQVERFFKIFPLGLHEEGLRKFSEYLCKQVASKAEENLLMV LGTDMSDRRAAVIFADTLTLLFEGIARIVETHQPIVETYYGPGR LYTLIKYLQVECDRQVEKVVDKFIKQRDYHQFRHVQNNLMRNS TTEKIEPRELDPILEVTLMNARSELVRLFKKRISSEDFEVDGS MASEEVKQEHQKCLDKLLNNCLSLCTMQLIGLYVTMEEFYFMR TVNKAVALDTEYKGLTSSMVDVFIKVKCIGRALSSSSIDCL CAMINLATTELESDFRDVLCNKLRMGFPATTFQDIQRGVTSAVN IMHSSLQQKGFDTKGIESTDEAKMSFLVTLANVVCSENI STLK KTLESDDCTKLFSQIGGGEQAQAFDSCLSDLAAVSNKFRDLLQE GLTELNSTAIKPQVPWINSFFSVSHNIEEEEFNDYEANDPWVQ QFILNLEQQMAEFKASLSPVIYDSL TGLMTSLVALEKVVLSK TFNRLGGLQFDKELRSLIAYLTVTWTITROKPARLSQMATILN LERVTEILDYWGPNSGPLTWRLTPAEVRQVLALRIDFRSEDTR LRL
6593	3	1837	EAFSAGSRRRGLALQRGVILGGLGGYCPCCRRRGRLLVLLLVLR RGEGGGGGRGRGDKRRRRQARRRRPEPAEARGGKMADVLSVL RQYNIQKKEIVVKGDEVIFGEFSWPKNVKINYVWVGTKEGQPR

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			EYVTLDSILFLNNVHLSHPVYVRAATENIPVVRPDRKDLG YLNGEASTSASIDRSAPLEIGLQIRSTQVKRADEVLAELAKPRI EDEECVRLDKERLAARLEGHKEGIVQTEQIRSLSEAMSVEKIAA IKAKIMAKKRSTIKTDLDDITALKQRSFVDAEVDVTRDIVSRE RVWRTTITLQSTGKNFSKNIFAILQSVKAREEGRAPEQRFAPN AAPVDPTLRTKQPIPAAYNRYDQERFKGKEETEGPKIDTMGTYH GMTLKSVTGASARKTQTPAAQPVPRPVSRPFPPNQKKGSRT IIIPAAATSLITMLNAKDLQDLKFVPSDEKKKQGCQRENETL IQRRKDMQPGGTASISVTPYRVVDQPLKMPQDWDVAVFVQ GPAWQFKGWPLLDGSPVDIFAKIKAFHLKYDEVRLDPNVQKW DVTVLELSYHKRHLDRPVFLRVWETLDRYVMVKHSHLRF
6594	1	1096	EFPGRFRGSGASPLCATCGPALLRAPTRAAMTRSLFKGNFWSA DLSTIGYDNI IQHLNNGRKNCKEFEDFLKERAIEERYGKDLL NLRSKKPCGQSEINTLKRALVFKQQVDNVAQCHIQLAQSREE ARKMBEFREKQKLQKKTLEIMDAIHKKQLQFKKTMDAKNYE QKCRDKDEAEQAVSRANLVNPKQKELFKLATSKTAVEDSK AYMLHIGTLDKVRWEQSEHIKACEAFAEQECERINFFRNALWL HVNQLSQQCVTSDMEYEQVRKSLMECSIQRDIEYFVNQRKTGQI PPAPIMYENFYSSQKNVAPGKATGPNLARRGPLIPKSSPDDP NYSLVDDYSLLYQ
6595	57	781	PLGTMSDSLGEDEGLLSLAGKRRKRGNLKESVKILRDWLYLH RYNAYPSEQEKLSLSGQTNLSVLQICNWFINARRLLPDMLRKD GKDPNQFTISRGGKASDVAFRGSSPSVLAVSVAPNTVLSLS VCSMPLHSGQGEKPAAPFPRGELESFKPLVTPGSTLTLLTRAE GSPTGGLFNTPTPTPEQDKEDFSSFQLLEVALQRAEMELQK QQDPSLPLHPTPLVSENPO
6596	2	1026	PRLPVRRYHGRRRLQGRSRGHMAEGDAGSDQRQNEETEAMAAIY GEWCVIDDCAKIFCIRISDDIDDPKWTLCQVMLPNEYPGTAP PIYQLNAPWLKQGERADLSNLEEIYIQNIGESILYLWVEKIRD VLIQKSQMTPEGPDVKKTEEDVECEDDLILACQPESSVKALD FDISETRTEVEVEELPPIDHGIPITDRRSTFQAHLPVVCVKQV KMLSKLYENKKIASATHNIYAYRIYCEDKQTFLODCEDDGETA AGGRLLHLMELNVKNVMVVSRYGGILLGPDRFKHINNARN ILVEKNYTNSPRESSKALGKKNKVRKDKKRNEH
6597	2	1026	PRLPVRRYHGRRRLQGRSRGHMAEGDAGSDQRQNEETEAMAAIY GEWCVIDDCAKIFCIRISDDIDDPKWTLCQVMLPNEYPGTAP PIYQLNAPWLKQGERADLSNLEEIYIQNIGESILYLWVEKIRD VLIQKSQMTPEGPDVKKTEEDVECEDDLILACQPESSVKALD FDISETRTEVEVEELPPIDHGIPITDRRSTFQAHLPVVCVKQV KMLSKLYENKKIASATHNIYAYRIYCEDKQTFLODCEDDGETA AGGRLLHLMELNVKNVMVVSRYGGILLGPDRFKHINNARN ILVEKNYTNSPRESSKALGKKNKVRKDKKRNEH
6598	1099	419	PRVRWATMAMSFWEFQYRFPFFFTLQPNVDTRQQLAAWCSL VLSFCRLHKQSSMTVMEAQESPLFNNVKLQKLPVESIQIVLEE LRKKNLEWLDKSKSSFLIMWRRPEEWGKLIYQWVSRSGONNSV FTLYELTNGEDTEDEEFHGLDEATLLRALQALQEHKAEITVS DGPRRQVLLAGTCLPLLLTSHLSRAFKRRQTQCPPKTGSVTPPD SKGLQS
6599	164	1593	KMAALTTLFKYIDENQDRYIKKLAKWVAIQSVSAWPEKRGEIR MMEVAAADVQKLGGSVELVDIGKQKLPDGSSEIPLPILLGRGSG DPQKKTVCIVGHLDVQPALEDGWDSEPTLVERDGKLGHRGSGT DDKGPVAGWINALEAYQKTGQEI PVNVRFCEGMEESGSEGLDE LIFARKDTFFKVDVVCISDNYNLGKKKPCITYGLRGICYFFIE VBESKNDLHSGVGVGSHVHEAMTDLILLMGSVLVDKRGNIPIGIN EAVAAVTFEHKLVDIDFIEFAKDVGAQILLHSHKIDILMH RWRYPSLSLHGIEGAFSGSGAKTVIPRKVVGKFSIRLVNMTPE

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			VVGEQVTSYLTKKFAELRSPNEFKVYMGHGGKPPWVSDFSHPHYL AGRRAMKTVFGVEPDLTREGGSIPVTLTFQEATGKNVMLLPVGS ADDGAHSQNEKLNRYNYIEGTKMLAAYLYEVSQDKD
6600	2	934	PGRLFRVAAMESAGLEQLLRELLPDTERRIRRATEQLQIVLRAP AALSALCDLLASADPQIRQFAAVLTRRLNTRWRRLAAEQRES LKSLILTALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLLQLL QSTHSPHSFEREMGLLLSVVVTSRPEAFQPHHRELLRLNET LGEVGSFGLLFYSLRTLTMAYLSTEDVPLARMLVPKLTMMQ TLIPIDEAKACEALEALDELLESEVPVITPYLSEVLTFCLEVAR NVALGNAIRIRILCCLTFLVKVKSALLKNRLLATLAHPFPHC GC
6601	529	1420	PRAAARAPPFAVLRRDRRAATAPGAGEMTLHGFLAQRVFLNHTIE KITTWQDPRKAMNQLNHNMLHPAVSSTPVPQSRMAVSQPNLVM NHQHQQMAPSTLSQQNHPTQNEPAGLMSMPNALTQQQQQOOL RLQRIQMERERIRMRQBELMRQEAALCQRLPMEATLAPVQAAV NEPTMTFDMRSITNNSDDFLNGGPPYHSREQSTDGSLGLGCYSV PTTPEDFLSNVDEMDTGENAGQTPMNIINPQTRFPDFDCLPGT NVDLGTLESEDLIPLFNDVESALNKSEPFITWL
6602	127	617	LLDFPALPKFVLQASPKAGKPTMTSMTQSLREVIKAMTKARNE ERVLGKITLVSAAPGKVICEMKVEEHTNAIGTLHGGLTATLVD NISTMALLCTERGAPGVSDMNIYMSPAKLGEDIVITAHVLKQ GKTLAFTSVDLTNKATGKLIAGGRHTKHLGN
6603	79	660	PVGPSSLAARTGLGHLPLFLHRLASSRGLDMDLLQFLAPLFLVLL SGMGATGLRTSLDPSLEIYKMFVVKRREQLLALKNLAQLNDI HQQYKILDVMLKGLFKVLEDSRTVLTAAADVLPDGPFPQDEKLD AFSHVVENTAFPGDVLRFPRIHVHYFDHNSNWNLLIRWGISFC NCTGVFNQGPSPILSLM
6604	3	688	TSTAQRQGGGRMSFRGGGRGGFNRRGGGGGGFNRRGSSNHFRRGG GGGGGGRNFRGGGRGGFGRGGGRGGFNKGQDQGPPERVLLGEFL HPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDEIFGQLR DFYFSVKLSENKASSFKLKQFYIDPYKLLPLQRFLEPPGK GPPRGGGRGGGRGGGRGGGRGGGRGGFRGGGGGGFRGGGRG GGFRGRGH
6605	7	848	SGSRGAMRAAGVGLVDCHCHLSAPDFDRDLDDVLEKAKKANV ALVAVAEHSGEFEKIMQLSERYNGFVLPCLGVHPVQGLPPEDQR SVTLKDLDDVALPIIENYKDRLLAIGEVGLDFSPRFAGTGBQKEE QRQVLIHQIQLAKRLNLPVNVHSRSAGRPTINLLQEQAEEKVLL HAFDGRPSVAMEGVRAGYFFSIPPSIIRSGQKLVKQLPLTSIC LETDSPALGPKEQVRNEPWNISISABYIAQVKGISVEEVIEVTT QNALKLFPKLRHLLQK
6606	2	1682	FVEIRPRAEVANLSAHSASPIQDAVLKRLSLEDIVYRQLNGLS KSLGLIEGYGGRGKGLPATLSPAEEEEKAGFHEKYGYNSYLSE KISLDRSIDYRPTCKELKYSKDLPPQISIIIFVNEALSIVLR SVHSAVNHTPTHLLKEIILVDDNSDEELKVPLEEYVHKRYPG VKVVRNQKREGLIRARIEGWKVATGQVTGFFDAHVEFTAGWAE VLSRIQENRKRVILPSIDNIKQDNFEVQRYENSAHGYSWELWCM YISPPKDWWDAGDPSLPRTIPAMIGCSFVVRNKKFFGEIGLLDP MDVYGGENIELGIKWLCCGSMEVLPCSRVAHIERKKKPYNSNI GPYTKRNALRVAEVMDDYKSHVYIAWNLPENPGIDIGDVSR RALRKSILCKNFQWYLDHVPYEMRRYNTVAYGELRNNAKADVC LDQGPLENHTAILYPCHGWGPQLARYTKEGFLHLGALGTTTLPL DTRCLVDNSKSRPLQLLDCDKVKSLSYKRNFIQNGAIMNKGTC RCLEVENRGLAGIDLILRSCTQRWTIKNSIK
6607	137	986	VPACAGLKKEARSLASPPRLNLTKLQASCRALFSPPIQSRQTT GISFCGRGGAGPGVPTRTQVFAAMGAVMGTFSSLQTKQRRPSKD KIEDELEMTMVCHRPEGLEQLEAQTNFTKRELOVLYRGFKNECP

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			SGVVDNEDTFKQIYAQFFPHGDASTYAHYLFNAFDTTQTGSKVFE DFVTALSI LLRGTVHEKLRWTFNLYDINKDGYINQEEMMDIVKA IYDMMGKYTYPVLKEDTPRQHVVDVFFQKMDKNKDGIVTLDEFLE SCQEDDNIMRSLQLFQNV
6608	224	1140	RPCFSSPTGLCPRLSYPMILLQHAVLPPPKQPSFSPPMVSATRS TGTLQLPFPQKPFQGEASLPLAGEEELSKGGEQDCALEELCKPLY CKLCNVTLNSAQQAQAHYQGNHGGKLRNYAANSCPPPARMSN VVEPAATFVVPVPPQMGSKFKPGGRVILATENDYCKLCDASFSSP AVAQAHYQGNHAKRLRLAEASNSFSSESELGQRRARKEGNEF KMMPNRRNMVTVQNNSGPYFNPRSRQRIPRDLAMCVTFSGQFYC SMCNVGAAGEEMEFQCHLESQKHKSQVSEQRVYRNEMENLGYV
6609	1	443	FLRLCRRFRVAGGRLAGAGLRERVPAPQRLSALTLLSWSAVT PAAEPGNFQLSPAEPGRGLASPVRAAPRACPAAEEMSELNKTTS PATNQAAQGEKKGAGNVKAAEEEEIDIDLTAPETEKAALAIQ GKFRFPQKRKKDPSS
6610	319	881	GRKSLCNLHIFIRFPLTYPDMYMGMMCTAKKCGIRFQPPAILLI YESEIKGKIRQIMPVRNFSKFSDCTRAABQLKNNPRHKSYLEQ VSLRQLEKLFSLRGYLSGQSLAETMEQIQRETTIDPEEDLNKL DDKELAKRKSIMDELFEKNQKKKDDPNFVYDIEVEFPQDDQLQS CGWDTESADEP
6611	978	212	PGCSGAGSRVWVLPALRHLAGSTESSEGRVVSFGVDEEERVRV LQGVRLSENVNRMKEPSSPPAPTSSTFGLQDGNLRAPHKEST LPRSGSSGGQQPSGMKEGVKRYEQRHAAIQDKLFQVAKREREA TKHSAKSLPTGEGSISHEEQKSVRLARELESREAE LRDRDFTYK EQLERIERKNAEMYKLSSEQFHEAASKMESTIKPRRVEPVCSSL QAQLLHCYDRDRPHEVLLCSLDLVKAYQRCVSAAHKG
6612	1724	992	VSTHASALSRTQGGPQRPRAAASGAGAGTAGGGGSGGAEGSKM STEAQRVDDSPSTSGSSSDGDQRESVQEPEREQVQPKKKEGKI SSKTAALKSTSAKRIQKELAEITLDPNCSAGPKGDNIEYWR TILGPPGSVYEGGVFLDITFSPDYPPKPKVTFRTRIYHCNIN SQGVICLDILKDNWSPALTISKVLLSICSLTDCNPADPLVGS ATQYMTNRAEHDRAQWTKRYAT
6613	130	748	ELELSSNMPEQSNDRVAVFGAGGVGKSSLVLRVFKGTFRFSYI PTVEDTYRQVISCDKSICTLQITDTTGS HQFPAMQRLSISKGHA FILVYSITSRQSLBELKPIYEQICEIKGDV3SIPIMLVGNKCD SPSREVQSSEARALARTWKCAFMTSAKLNHNVKELFQELLNLE KRRTVSLQIDGKSKQOKRKEKLKGCVM
6614	3	1191	SSAAEAMRVLVRRCWGPPLAHGARRGRPSQWRALARLGWEDCR DSRVREKPPWRVLPFGTDQFAREALRALHAARENKEEELIDKLE VVTMPSPSPKGLPVKQYAVQSQLPVYEWPDVGSGEYDVGVVASF GRLLNEALILKPPYGLNVHPSCLPRWRGPAPVIHTVLHGDVT GVTIMQIRPKRFDVGPILKQETVPVPPKSTAKELBAVLSRLGAN MLISVLKNLPESLSNGRQPMEGATYAPKISAGTSCIKWEEQTS EQIFRLYRAIGNIIPQLTLMANTIKLLDLVEVNSSVLADPKLT GQALIPGSVIYHKQSQILLVYCKDGWIGVRSVMLKKSILTATDFY NGYLHPWYQKNSQAQPSQCRFQTLRLPTKKKQKKTVMQCCIE
6615	832	35	GRVGAGASAMSELPDGVRAFLREHPSLRLOTDAKRVRCILTGHE LPCRLPELOVYTRGKKYQRLVRASPAFDYAEFEPHIVPSTKNPH QLFCKLTLRHINKCPEHVL RHTQGRRYQALCKYEECQKQVVEY VPACL VHRRRRRRQMDGDGPRPRAFWPTSSDEGGAASDDSM TDLYPPELFTRKDLGSTEDGDGTD DFLTDKEDEKAKPPREKATD EGRRETTVYRGLVQKRGKQLGSLKKKFKSHRKP KPSFSSCKQS G
6616	347	1886	LLPPCQGARPLSSPPHASEDNLFNFNCILCAFFHPSPQPLQYP VWPLLVI TQIPAPRHLNRNPFSSRGGLSFSGSLSTPSICRS

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			PAWVKMAPWPPKGLVPAVLWGLSLFLNLPGFIVLQPSPPQSSP PPQPHPCHTCRGLVDSFNKGLERTIRDNFGGNTAWEEENLSKY KDSETRLVEVLEGVCSKSDFECHRLLELSEELVESWFWHKQEA PDLFQWLCSDSLKLCPPAGTFGPSCLPCPGGTERPCGGYGQCEG EGTRGGSGHCDQCAGYGGACGQCGLGYFEARNASHLVCSACF GPCARCSGPEESNCLQCKKGWALHHLKCVDIDECGTGANCGAD QFCVNTGSGYECRDCAKACLGCMGAGPGRCKKCSPGYQQVGSKC LDVDECETEVCPEGNKQCENTEGGYRCICAEGYKMEGICVKEQ IPESAGFFSEMTEDELVVLLQQMFFGIIICALATLAAGDLVFTA IFGAVAAMTGYWLSERSDRVLEGFKGR
6617	118	673	VWMAVQVSLLELDRLQCPICLEVFKESLMLQCGHSYCKGCLVS LSYHLDTKVRCPMCWQAVDGSLSLNVSLAWVIEALRLPGDPEP KCVVHRNPLSLFCEKDQELICGLGSLGSHQHHPVTPISTVCS RMKEELAAALFSELKQEQKKVDELIAKLVNRTRIDGSAPSLCPC LGPATFTFL
6618	548	136	DGKVARAPNSPFAFQNDIYPLVSAPRATTAEPSWVKVLTQCR NVPKMTSERSRIPCLSAAAAEAGTKKQEGGRAMATLDRKVPSP APLGKWPSSWIDAALHCSNDVLEAGKEGKSREVMRLNKEA WKVGT
6619	246	842	PASSEVLTAAMVFLLLNCIVAVSQNMGIKNGDLPRPPLRNEFR YFQRMTTSSVEGKQNLVIMGRKTWFSIPEKNRPLKDRINLVLS RELKEPPQGAHFLARSLDDALKLTERPELANKVDMIWIVGSSV YKEAMNHLGHLKLFVTRIMQDFESDTFFSEIDLEKYKLLPEYPG ILSDVQEGKHICYKEVCEKDD
6620	3	1879	NSRVDDFVARARMAAENEASQESALGAYSPVDYMTSTSPRLPE DEPAPAAPLRGRKDEDAFLGDDPTDPPDSFLKSARLQRLPSSSS MGSQDGSPLRETRKDPFSAAAAECSQRDGLTIVITACLTATG VTVALVMQIYFGDPQIFQQGAVVTDAACTSLGIEVLKQSSSV DAVAALCLGIVAPHSSGLGGGVMLVHDIRRNESHLDIFRES APGALREETLQRSWETKPGLLVGVPGMVKGLHEAHQLYGRLPWS QVLAFAAAVAQDGFNVTHDLARALAEQLPPNMSERFRETFPLSG RPPLPGSLLRPDLAELVDVLGTSGPAAFYAGGNLTLEMVAEAG HAGGVITEEDFSNYSALVEKPVCGVYRGHLVLSPPPPHTGPALI SALNILEGFNLTSLSVSEQALHWAETLKIALALASRLGDPVYD STITESMDDMLSKEAAYLRGHINDSQAAPAPLLFVYELDGAFT AAQVLIMGPDDFIVAMVSSLNQPFSGSLITPSGILLNSQMLDFS WPNRTANHSAPLENSVQPGKRPLSFLLPVVRPAEGLCGTYLA LGANGAARGLSGLTQVRFTPWLAFFSREPSCGLDCRCLSYLWL SIPHAANMG
6621	1	662	VQGITSYQQLQALRKEKSRDAARSRRGKENTFEFYELAKLLPLP AATSQLDKASIRLTISYLMKRDFAHQDPPWNLRMEGPPNPT SVKVIGAQRRRSFSAIAIEVFEHLGSHILOSLDGYVFALNQEG KFLYISETVSIYGLSLQVELTGSSVFDYVHPGDHVEAEQLGMK LPPGRGLLSQGTAEAGASSASSSSQSETEPEPVVCFPPASDQFL
6622	2	319	GRASGAQEBETEAGGPERARAMEANMPKKEPGRSLRIKVISMG AEVGKSCI IKRYCEKRFVSKYLATIGIDYGVTKVHVDRDREIKVN IFDMAGHPFFYEVKRF
6623	1886	189	KALFEKVKKFRHLHVEEGDILYAMYVROTFLVKIKFLITAYNSA LVSKVQFTVDCNVDIQDMTGYNFSCNHTMAHLFSKLSFCYLCF VSIYGLTCLYTLWLFYRSLREYSFEYVRQETGDDIPDVKNDF AFMLHMIDQYDPLYSKFAVFLSEVSENKQLQNLNNEWTPDKL RQKLQTNHNRLELPLIMLSGLPDTVFEITELQSLKLEIKVM IPATIAQLDNLQELSLHQCSVKIHSAAFLKENLKVLSVKFDD MRELPPWMYGLRNLLELYLVGSLSHDISRNVTLSESLDLKSLKI LSIKSNVSKIPOAVVDVSSHLOKMCIHNDGTKLVMNLNKKMTN LTELELVHCDLERIPHAVFSLLSLQELDLKENNLKSIEEIVSFQ

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			HLRKLTVLKLWHNSITYIPEHTKKLTSLERLSFSHNKIEVLPSH LFLCNKIRYLDLSYNDIRFIPPEIGVLQSLQYFSITCNKVESLP DELYFCKKLTLLKIGKNSLSVLSPKIGNLLFLSYLDGKGNHFEI LPPELGDCRALKRAGLVVEDALFETLPSDVREQMKT
6624	218	1786	GSRGGGSRIPAVSTHVAPGRSVLRPFASGALRLRLVKALGGC RGRPSGLAHLQSQETSHWRKRSGRACLDGFPGEILRSFIMKCTA REWLRVTTVLFMARAIAMVVPNATLLEKLEKYMDEDEGWIA KQKGRATIDNDMQSILDLHNKLSQVYPTASNMEYMTWDVELE RSAESWAESCLWEHGPASLLPSIGQNLGAHWGRYRPPFPVQSW YDEVKDFSYPYEHECNFYCPFRCSGPVCTHYTQVWATSNRIGC AINLCHNMNIWQIWPKAVYLVNYSKGNWGHAPYKHGRPCS ACPPSFGGCGRENLCYKEGSDRYPPREETNEIERQQSQVHDT HVRTSDDSSRNEVISAOQMSQIVSCEVRLRDQCKGTTCNRYEC PAGCLDSKAKVIGSVHYEMQSSICRAAIHYGIDNDGGWVDITR QGRKHFIKSNRNGIQITIGKYQSANSFTVSKVTQAVTCTTVE QLCPFHKPAHSCPRVYCPKLYASKSTLCSCNWNSSLF
6625	1124	543	PGPRGGGGSLLSTKALGRSRLGMLHGPSSGGTEGGVPTALRPP GPLVPSTDDNLLKNIELFDKLALRFHGRLLFLKDVIGDEICCW SFYGGGRKIAEVCCTSIVYATEKKQTKVEFPPEARIFEETNLILI YETPRGPDALLEATGGAAGAGGAGRGEDEENREHVRRIHVRR HITHDERPHGQQIVFKD
6626	3	1498	SAVEFVYTRDFHLILGISVEFLCSLRSDATMESITACLHALQAL LDVWPFRSKIGSDQDSGIELNLVLRVILTRESPSIQLASLEV RQIIICAAQEHVKEKRRSAEVDGAAEKETLPEFGGKDTGGGLVP GKSLVFATLELCVCILVRQLPELNPKITGSPGVKATKPKQILLE GSRVSAALVILSELPAVCSPEGSISILPTILYLTIGVLRETAV KLPGGQLSSTVAASLQALKGILSSPMARAEKSRATWDLRLSAL TTILDCWDVPVDETHQELDEVSLTALTITFILSTSPVTTIPCLQ KRCIDKFATLEIKDPVQIKTYQLLHSIFQYPNPAVSYPYIYS LASCIMEKLOEIDKRKPENTAELEIFQEGIKVLETLVTVAEEHH RAQLVACLLPILISFLDENSLSGATSIMRNLHDFALQNLMOIG PQYSSVFKSLVASSPALKARLEAAIKGNQESVKVKIPTS KYTKS PGKNSSIQLKTSFL
6627	1	697	GIPHLSSRDMTGTGFAVATRDGEAPERSFPSPSYDLTGKVMLL GDTGVGKTCFLIQFKDGAFLSGTFIATVGIDFRNKVTVVDGVRV KLQIWDTAGQERFRSVTHAYYRDAQALLLYDITNKSSFDNIRA WLTEIHEYAQRDVVIMLLGNKADMSERVIRSEDGETLAREYGV PFLTSAKTGMNVLAFLAIAKELKYRAGHQADEPSFQIRDYVE SQKRRSSCCSFM
6628	1	1861	QCAEFGGGGGGGGGGGGGGGGGGAGGEEENKENERPSAGSKAN KEFGDSLSEILQIIKESQQQHGLRHGDFQRYRGYCSRRQRRLR KTLNFKMGNRHKFTGKKVTEELLTDNRYLLLVLMDAERAWSYAM QLKQEAANTEPRKRPHLLSRLKAVKHAEELERLCESNRVDAKTK LEAQAYTAYLSGMLRFEHQEWKAAIEAFNKCKTIYEKLASAFTE EQAVLYNQVRVEEISPNIRYCAYNIGDQSAINELMQMRLRSGGTE GLLAELKLEALITQTRAKAATMSEVEWRGRTVPVKIDKVIIFLL GLADNEAAIVQAESEETKERLFESMLSECRDAIQVVRRELKPDQ KORDYILEGEPGKVSNLQYLHSYLYIKLSTAIKRNNMAKGLQ RALLQQQPEDDSKRSRPPQDLIRLYDIIILQNLVELLQPLGLEED KAFQKEIGLKTIVFKAYRCFFIAQSYVLVKWSEALVLYDRVLK YANEVNSDAGAFKNSLDLPDVQELITQVRSEKCSLQAAAILDA NDAHQTETSSSQVKDNKPLVERFETFLDPSLVTKQANLVHFPF GFQPIPCPKPLPFDLALNHVAFPPLEDKLEQKTKSGLTYIKGIF GFRS
6629	5653	4549	GATFLGSGVGGRTGKMDAATLYDTLRFAPFEDFPETSEPVWILG RKYSIFTEKDEILSDVASRLWFTYRKNFPAIGGTGPTSDTGWGC

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			MLRCGQMIFAQALVCRHLGRDWRWTQKRQPDYSFVSLNAFIDR KDSYYSIHQIAQMVGEGKSIGQWYGPNTVAQVLKKLAVFDTWS SLAVHIAMDNTVVMEEIRRLCRTSVPCAGATAFPADSDRHCNGF PAGAEVTNRPSRPLVLLIPLRLGLTDINEAYVETLKHCFMMP QSLGVIGGKPNASAHYFIGYVGEELIYLDPHPTTQPAVEPTDGCFI PDES FHCQHPPCRMSIAELDPSIAVVRGGHLSTQAFGAECCLGM TRKTFGFLRFFFSMLG
6630	2	423	LVQCGGIRRRSAWGAAMPGRHVSRRVLYKRVLQLHRVLPDDLKS LGDQYVKDEFRRHKTGVSDEAQRFLQEWVYATALLQANENRQ NSTGKACFGTFLPEEKLNDFRDEQIGQLQELMQEATKPNRQFSI SBSMKPKF
6631	2	423	LVQCGGIRRRSAWGAAMPGRHVSRRVLYKRVLQLHRVLPDDLKS LGDQYVKDEFRRHKTGVSDEAQRFLQEWVYATALLQANENRQ NSTGKACFGTFLPEEKLNDFRDEQIGQLQELMQEATKPNRQFSI SBSMKPKF
6632	1273	558	WNSRGRTQGAAPLAPAAAMKAVVQVRTRASVTVGGEQISAIGR GICVLLGISLEDTQKLEHMRKILNLRVFEDESGKHWKSVMD KQYEILCVSQFTLQCVLKGKPKDFHAMPTEQAEGFYNSFLEQL RKYRPELIDKGKFGAYMQVHIQNDGPVTIELESAPGATATSDP KQLSKLEKQQQRKEKTRAKGPSSESKERNTPRKEDRSASSGAEG DVSSEREP
6633	1145	617	ATGRHEGVPTLEGIIQQLVNGIITPATIPSLGPWGLHNSNPMY AWGANGLDAIITQLLNQFENTGPPPADKEKIQALPTVPVTEHV GSGLECPVCKDDYALGERVRLPCNHLPHDGCIVPWLEQHDSCP VCRKSLTGQNTATNPPGLTGVSFSSSSSSSSSSSPSNENATNS
6634	1	1134	CGGTPRKGSGPRRLPMARLDCFLRLMLTLRSLFWSLVVCYC GLCASIHLLKLLWSLKGPAQTFRPAREHPPACLSDPGLTHC YVRIKDSGLRFHYVAAGERGKPLMLLLHGFPEFYWSRYQLREF KSEYRVVALDLRGYGETDAPHRQNYKLDCLITDIDKILDSLGY SKCVLIGHDWGGMIWLIAICYPEMVMKLIVINFPHPNVFTEYI IRHPAQLLKSSYYYFPQIPWFPEMFISINDFKVLKHLFTSHSTG IGRKGCQLTTEDLEAYIYVFSQPGALSGPINHYRNI FSCPLKH HMTTPTLLWGENDAFMEVEMAETVTRFYVKNYFRLTILSEASH WLQDQDPDIVNKLITWFLKEETRKDD
6635	1420	470	EMRAGQQLASMLRWTRAWRLPREGLPHGSPFARVPVAFSSSSG GRGGAEPRLPLSYRLDGEAALPAVVFHGLFGSKTNFNSIAK ILAQQTGRRLTVTDARNHGDSPHSPDMSYEIMSQDLQDLLPOLG LVPCVVVGHSMGGKTAMLLALQRPPELVERLIAVDISPVESTGVS HFATYVAAMRAINIADELPRSRARKLADEQLSSVIQDMAVRQHL LTNLVEVDGRFVVRVNLDAITQHLDKILAFPRQRESYLGPITLFL LGCNSQFVHPSSHPEIMRLFPRMQMTVPNAGHWIHADRPQDFI AAIRGFLV
6636	1514	1801	SFCMFSHKODSHFQAVPVQEKKKRLRRAPWRAFAQPQLKHPAE QPIVRQCLQRPPLCGVLGPFVQQLPPSLGPLVLSPHSDPGWCRVD DGGDGVF
6637	2	1501	CSSSPCFHDGTCVLDKAGSYKACLAGYTGQRCENLLEAGKSKI KASEDSLSVLEERNCSDPGGPVNGYQKITGGPGLINGRIHAKIGT VVSFFCNNSYVLSGNEKRTCQNGEWSGKQFICIKACREPKISD LVRRRVLPQMVSQRETPHLQLYSAAFSKQKLQSAPTKKPALPFG DLPMGQHLHTQLQYECISPFYRLGSSRRTCLRTGKWSGRAPS CIPICGKIENITAPKTQGLRWPAQAIYRRTSGVHDGSLHKGAN FLVCSGALVNERTVVAAHCVTDLGKVTMIKTADLKVVLGKFYR DDDRDEKTIQSLQISAILHPNYDPIILLADIAILLKLDKARIS TRVQFICLAASRLDSTSFSQSHITVAGWNVLADVRSFGFKNDTL RSGVSVVDSLLCEEQHEDHGI PVSVTDNMFCASWEPTAPSDIC TAETGGIAAVSFPGRASPEPRWHLMLVSWSYDKTCSHRLSTAF

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6638	1391	224	TKVLPFKDWIERNMK GGIPQAGGKMAAPWRAALCECRRWRGFSTSAVLGRRTPLGPM PNSDIDLSNLERLEKYRSFDRYRRRAEQEAQAPHWRTYREYFG EKTDPKKEKIDIGLPPPKVSRTOQLLERKQAIQELRANVEERAA RLRTASVPLDAVRAEWERTCGFYHKQRLAEYYGLYRDLFGHATF VPRVPLHVAYAVGEDDLMPVYCGNEVTPTEAAQAPVITYEABEG SLWTLTLLTSLDGHLLPEDAEYLHWLLTNIPGNRVAEGQVTCPYL PPFPARGSGIHLRAFLFLFKQDQPIDFSEDARPSPCYQLAORTFR TFDFYKKHQETMTFAGLSFFQCRWDDSVTYIFHQLLDMREPVE FVRPPYPYHPKQKRFPHRQPLRYLDYRDSHEPTYGYI
6639	2046	1268	IGCFIMDGGDDGNLIKKRFVSEAELEDERRRRQEEWEKVRKPE DPEECPEEYVDPRSLYERLQEQKDRKQEQYEEQFKFKNMVRGLD DEETNFLDEVSRQOELIEKORREBELKELKEYRNNLKKVGISQE NKKEVEKKLTVKPIETKNKFSQAKLLAGAVKHKSSSESGNSVKRL KPDPEDDKNQEPSSCKSLGNTSLSGPSIHCPSAAVCIGILPGL GAYSGSSDSESSDSEGTINATGKIVSSIFRTNTFLEAP
6640	117	1043	VLEFPDVSMAESEDRLRIVLVGKTSGKSATANTILGEEIFDS RIAAQAVTKNCQKASREWQGRDLLVVDTPGLFDTKESLDTTCKE ISRCIISSCPGPHAIIVLVLLGRYTEEBEQKTVALIKAVFGKSAM KHMVILFTRKEELEGQSFDHFIADADVGLKSIKCEGNCRCASF NSKKTSAEKESQVQELVELIEKMQVCNEGAYFSDDIYKDTESR LKQREEVLRKIYTDQLNELIKLVEEDKHKSEKKEKEIKLLKLLK YDEKIKNIREEAERNIFKDVFNRIWKMLSEIWHFRFLSKCKFYSS
6641	1	894	SAAVGRRSEVRGCAPRFLRRSARRMDPVPGTDSAPLAGLAWSS ASAPPPRGFSAISCTVEGAPASFGKSAQKSGYFLCCLSSLSLE NPQENVVADIQIVVDKSPPLGFSPPVCDPMDSKASVKKRMCV KLLPLGATDTAVFDVRLSGTKTVPGYLRIGDMGGFAIWCKKAK APRPVPKPRGLSRDQGLSLDAASQPSKGGLLERTASRLGSRAS TLRRNDSIYEASSLYGISAMDGVPTLHPRFEGKSCSPLAFSAF GDLTIKSLADIEEYNYGVVEKTAARLPSPVS
6642	22	1296	PLEERMMTKMDPNDQORDIIFELRRIFAEDAESDPSNAPGSGTE KRKAMYT KDYKMLGFTNHNIPAMDFOTQTPPGMLALDNMLYLAKV HQDTYIRIVLENSSREDKHECPFGRSAIELTKMLCEILQVGELP NEGRNDYHPMFFTHDRAFEELFGICIQLLNKTWKEMRATAEDFN KVMQVVRQITRALPSKPNSLDQFKSKLRSLSYSEILRLRQSER MSQDDFQSPPIVELREKIQPEILELIKQQLNRLCEGSSFRKIG NRRRQERFWYCRALNKHVLHYGDLDDNPQGEVTFESLQEKIPV ADIKAVTGKDCPHMKEKSALKQNKVELELAFSILYDPPDETINF IAPNKVEYCIWIDGLSALLGKMSSELTKSDLDTLTSMEMKRLRL LDLENIQIPEAPPPPIKPESSSYDFVYHYG
6643	3049	2265	SLHAPAEGRTRGLAEKPKMLTRKIKLWDINAHITCRLCSGYLI DATTVTCLHTFCRSCLVKYLEENNTCPTCRIVIHQSHPLQYIG HRTMQDIVYKLVPLGQEAEMRKQREFYHKLGMVPGDIKGETC SAKQHLDSHRNGETKADDSNKEAAEEKPEEDNDYHRSDEQVSI CLECNSSKLRGLKRWIRCSAQATVHLKFKIAXKLNLSSFNEL DILCNEEILGKDHCLKFVVVTRWRFKKAPLLHYRPMKMDLL
6644	1489	290	FRPLATEPRGSSPVQLVSTMSVRTLPFLFLNLGGEMLYILDQR LRAQNI PGDKARKVLNDIISTMFNRKFMEELFKPQELYSKKALR TVYERLAHASIMKLNQASMDKLYDLMTMAFKYQVLLCPRPKDV LVTFNHLDTIKGFIRDSPTILQQVDETLRQLTEIYGGLSAGEFQ LIRQTLILFFQDLHIRVSMFLKDKVQNNNGRFVLPVSGPVVPGW EVPGLIRMFNNKGEVVKRIEFKHGGNYVPAPKEGSFEFYGDRVL KLGTNMYSVNQPVETHVSGSSKNLASWTQESIAPNPLAKEELNF LARLMGGMEIKKPSGPEPGFRLNFTTDEEEEAALTRPEELSV EVINIQTQDQQRSEELARIMGEFEITEQPRLSTSGDLDLLAMM DEL

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6645	6530	4646	FVEGLAGVYVYKAASEGKVLTLAALLNRSSEDIRYLLGYVSQQG GQRSTPLIIAARNGHAKVVRLLLEHYRVQTQQTGTVRFDGYVID GATALWCAAGAGHFEVVKLLVSHGANVNHTTVNSTPLRAACFD GRLDIVKYLVENNANISIANKYDNTCLMIAAYKGHTDVVRYLLE QRADPNKAHCGATALHFAAEAGHIDIVKELIKWRAAIVVNGHG MTPLKVAAESCKADVVELLSHADCDRRSRIEALLEGASPFAND RENYDIIKTYHYLYLAMLERFQDGDNILEKEVLPPIHAYGNRTE CRNPQBLESIQRDRALHMEGLIVRERILGADNIDVSHPIIYRG AVYADNMEFEQCICKLWHLHLRQKGNRNTHKDLLRFAQVFSQM IHLNETVKAPDIECVLRCSVLEIEQSMNRVKNISDADVHNAMDN YECNLYTFLYLVICISTKTQCSEEDQCKINKQIYNLIHLDPRTRE GPTLLHLAVNSNTPVDDFHTNDVCSFPNALVTKLLLDGCAEVNA VDNEGNSALHIIIVQYNRPIISDFLTHSIIISLVEAGAHTDMTNK QNKTPLDKSTTGVSEILLKTQMKMSLKCLAAARAVRANDINYQDQ IPRTLEEFVGFSH
6646	176	890	PSSRMNHLPEDMENALTGSQSSHASLRNIHSINPTQLMARIESY EGREKKGISDVRRTFCLFVTFDILLFVTLWIIELNVNGGIENL EKEVMQYDYSSYFDIFLLAVFRFKVLILAYAVCRLRHWWAIAL TTAVTSAFLAKVILSKLFSQGAFGYVLPPIISFILAWIETWFLD FKVLPQEAEEENRLIVQDASERAALIPGGLSDGQFYSPPESEA GSEEAEEKQDSEKPLEL
6647	176	890	PSSRMNHLPEDMENALTGSQSSHASLRNIHSINPTQLMARIESY EGREKKGISDVRRTFCLFVTFDILLFVTLWIIELNVNGGIENL EKEVMQYDYSSYFDIFLLAVFRFKVLILAYAVCRLRHWWAIAL TTAVTSAFLAKVILSKLFSQGAFGYVLPPIISFILAWIETWFLD FKVLPQEAEEENRLIVQDASERAALIPGGLSDGQFYSPPESEA GSEEAEEKQDSEKPLEL
6648	413	897	RNCWNCFTKYFNSPPEDIDHKDSYLI TRSIMEAPDYIEDDNPEL IRPQKLINPVKTSRNHQDLHRELLMNQKRGAPQNKPELQKVME KRKRDOVIKQKEEAQKKSDLEIELLKROQKLEQLEKQKQKQ EEQENAPEFVKVKNLRRRTQGEVAQAQES
6649	1357	832	WIPRAAGIRHEVKWDVKEIMSOHNIVVDALLKEFEQFNRLNEV SKRVRIPLPVSNTLWEHCIRLANRTIVEGYANVKKCSNEGRAIM QLDFQOFLMKLEKLTDIRPIPDKEFVETIYKAYLTENDMERWI KEHREYSTKQLTNLVNVLGSHINKKARQKLLAIDDDIRPKR
6650	32	765	LVPLVFSLLVQSCQVYRSIAMKFPVPCLLLVTLSCGLTGLQAPR QKQGSTGEEFHFQTGGRDSC TMRPSSLGQGAGEVWLRVDCRNTD QTYWCEYRGQPSMCOAFAADPKSYWNQALQELRRLHHACQGAPV LRPSVCREAGPOAHMQQVTSLSLKGSPEPNQPEAGTPSLRPKAT VKLTEATQLGKDSMEELGKAKPTTRPTAKPTQPGPRPGGNEEAK KKAWEHCWKPFQALCAFLISFFRG
6651	3425	1353	AKELLKVGDVSLCAGFYQNTADTMENLSKEPLASFVSESFDISA CGIATEHVKIDNSGEGLTAEAGSETLSRDGEVGVNSDMHYELSG DSDLDLLGDCRNPRLDLEDSTYTLRGSYTRKKDVPTDGYESSLNF HNNQEDWGCSSWVPGMETSLPPGHWTAAVKKEKCVPPYVQIR DLHGILRTYANFSITKELKDTMRTSHGLRRHPSFSANGLPSSW TSTWQVADDLTQNTLDLEYLRFAHKLKQTIKNGDSQHSASSANV FPKESPTQISIGAFPSTKISEAPFLHPAPRSRSPLLVTVVEDSP RPQGPQRGYTASSLDSSSSWRERCSHNRDLRNSQRNHTVSFHL NKLKYNSTVKESRNDISLILNEYAEFNKVMKNSNQIFQDKELN DVSGEATAQEMYLPPGRSASYEDIIIDVCTNLHVKLRSVVKEA CKSTFLFYLVETEDKSFVVRTKNLLRKGHTEIEPQHFCQAFHR ENDTLIIIRNEDISSHLHQIPSLKLKHPFSVIFAGVDSPGDV LDHTYQELFRAGGFVISDDKILEAVTLVQLKEIIKILEKINGNG RWKWLHLYRENKKLKERVDSTAHKKNIMLKSFQSANIIELHH YHQCDSSRSSTKAEILKCLLNLOIQHIDARFAVLLTDKPTIPREV

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6652	2	1343	FENNGILVTDVNNFIENIEKIAAPFRSSYW IPGSTISCSCHSRRLRGCSAPRLSLGAASPRPRPPSLPLPLPL PPFLFLPTRPAERAWIRRRASEWVGKMEVPRLDHALNSPTSPC EEVIKNLSLEAIQLCDRDGNKSQDSGIAEMEEELPVPHNIKISNI TCDSEFKISWEMDSKSKDRITHYFIDLNNKENKNSNFKHKDVPT KLVAKAVPLPMTVRGHWFLSPRTEYTVAVQTASKQVDGDYVUSE WSEIIEFCTADYSKVHLTQLEKAEVIAGRMLKFSVFYRNQHKKE YFDYVREHGNAMQPSVKDNSGSHGSPISGKLEGIFFSCSTEFN TGKPPQDSPYGRYRFEIAAEKLFNPNTNLYFGDFYCMYTAYHYV ILVILAPVGSFGDEFCKQLPQLNSKDNKPLTCTEEDGVLVYHHA QDVILEVIYTDVVDLSLGTVAEITGHQLMSLSTANAKKDPSCKT CNISVGR
6653	170	1910	FFLEPRLRPFAPRARFVPARTRPSPLHPCCFEGGGSMLSPQ RVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASI LQDHDRLDVLVVSVAGAEFRKGSFILDFMLRYLYSQKESGHS NWLGDPEEPLTGFSWRGSDPETTGIIQWSEVFTVEKPGKKVA VVLMDTQCAFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQED DLQQLQLFTEYGRLAMDEIFQKPFQTLMLFVRDWSFPYYSYGL QGGMAFLDKRLQVKEHQHEEIQNVNRNHIHSCFSDVTCFLPHFG LQVATSPDFDGKLDIAGEFKEQLQALIPYVLNPSKLMEKEING SKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATAEAYNLAAAA SAKDIYNNMEVCGGKPYLSPDILEEKHCEFKQLALDHFKKKT KMGKGKDFSFYQQBLEEEIKELYENFCKHNGSKNVFSTFRTPA VLFTGIVALYIASGLTGFIGLEVVAAQLFNCMVGLLLIALLTNGY IRYSGQYRELGGALDFGAAYVLBQASSHIGNSTQATVRDAVVGR PSMDKKAQ
6654	1	705	RTSLSPSQCSSFNLAMASAGMQLGVVLTLLGWVNGLVSCALPM WKVTAFIGNSIVVAQVWVWGLWMSCVVQSTGQMCKVYDLSLAL PDLQAARALCVIALLVALLVGLLVLAGAKCTCCEEKDSKARL VLTSGIVFVISGVLTLIPVCWTAHAVIRDFYNPLVAEAQKRELG ASLYLGWAASGLLLGGGLLCTCPSGGSQGPSHYMARYSTSAP AISRGPSSEYPTKNYV
6655	341	16	KDAYMFKKGLLALALVPSLVPFAAEHWIDVRVPEQYQOEHVQGA INIPLEKVKERATAVPDKNITVKVYCNAGRQSGQAKELLSEMG YTHVENAGGLKDIAMPKVKG
6656	2	1212	TELPFRPANLAIQFPLSPLRALAPLEKPGAVPPPQKRMMAKVAK DLNPGVKKMSLGLQSQARGVACLGCKGTCSGFEPHSWRICKSC KCSQEDHCLTSDLEDDRKIGRLLMDSKYSTLTARVKGGDGIRIY KRNRMIMTNPIATGKDPFTDTITYEWAPPGVTTQKLGLQYMEIIP KEKQPVGTGEGAFYRRRQLMHQLPIYDQDPSRCRGLLENELKLM EEFVKQYKSEALGVGEVALPGQGGLPKEEGKQEKPEGAETAA TTNGSLSDPSKEVEYVCELCGAAPPDPSVVYSDRAGYNKQWHP TCFVCAKCEPLVDLIYFWKDGAPWCGRHYCESLRPCSGCDEI IFAEQYQRVEDLAHRRHKHFVCEGCEQLLSGRAYIVTKGQLLCPT CSKSKRS
6657	830	2120	LLTCQERAGDCLLSASTMKVYVWSPKKVADWLLNAMPBYCEP LEHFTGQDLINLTQEDFKKPLCRVSSDNGQRLLDMIETLKMEH HLEAHKNHGHANGLNIGVDIPTDGSFSAIKIPNGMPNGYRKEM IKIPMEPELERSQYPMWEGKTFLAFLYALSCFVLTVMISVVHER VPPKEVQFPPLPDTFFDHFNRVQWAFSICEINGMILVGLWLIQWL LLKYKSIISRRFFCIUGTLYLYRCITMYVTTLVPVGMHFNCSFK LFGDWEAQLRRIMKLIAGGGLSITGSHNMGDYLVSHTVMTLTL TVLFIKESYPRRLWYHWICWLLSVVGI FCIILAHHDHYTVDVVV AYYITTRLFWYHTMANQVQLKESQMNLLARVWYRPFQYFEK NVQGI VPRS YHWPPFPVPHLSRQVKYSRLVNDT
6658	35	855	HCCALGAPGSPYRGLYFSSAAPCTAPRKAKHQSTLEGLTKRMLM

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			FDPVPVKQEQAMDPVSVSYSPSNYMESMKPNKYGVYISTPLPEKFF QTPEGLSHGIQMEPVDLTVNKRSSPPSAGNSPSSLKFPSSHRRASPGLSMPSSSPFIKKYSPSPGVPFGVPLSMPPVMAAALSRLGIRSPGILPVIQPVVQPVVPMYTSHLQQLMVSLSEEMENSSSS MQVPVIESYEKPIISQKKIKIEPGIEPQRTDYYPEMSPPLMNSV SPPQALLQE
6659	18	523	EPQRGDCETWFQNCSLPKFVCFPCWGFWLWRAHSMNSLHSLPGL RGLTSISRNLQCTNAMRVINNYQRRWKNQNTFLLATFANVVV CGNPTITCPHNRLLNNCHHSGVQVPLMYCNLTTPSPQNISNCRY AQTANMFYIIVACDNRDQRRDPPQYVVPVHLHTII
6660	514	1707	CAASLDCRHHLCPEPMKLVWFSKLLQAAGASARACDSVTSNV LPLLLEQFHKHSQSSQRRITILEMLLGLKLQKWSYEDKDQRP L NGFKDQLCSLVFMAITDPTQLQLVGIRTLTVLGAQPDLLSYED LELAVGHLYRLSFLKEDSQSCRVAALASGTLAALYPVAFSSHL VPKLAEBELRVGESNLITNGDEPTQCSRHLCCQLASAVSTHPSIV KETLPLLLQHLWQVNRGNMVAQSSDVIAVCQSLRQMAEKCCQDP ESCWYFHQTAIPCLLALAVQASMPKEKPSVLKVLLEDEVLAAM VSVIGTATTHLSPELAAQSVTHIVPLFLDGNVSFLPENSFPSPRF QPFQDGGSSGQRRLLIALLMAFVCSLPRNVSEHIEVLLFNLDKVT PG
6661	179	430	GVHAASGTLATWLAELAKMFDLSLAKAGKYLGAQAKLMIGMPDYD NYVEHMRVNHDPQTPMTYEEFFRERQDARYGGKGARCC
6662	185	423	RSLPKPAPAQPASIHCAEFGSVTPPTAKTAMSDGNTAFNALMYC GPKADDGNIIFSACAPASSAVKASVSVAPQGGQAVIP
6663	3	1005	RPVLSRVDDFVPLPETSGRKKLERMYSVDRVSDDIPRTWFP KENLPSFQTASTTMOAISNFRKHLRMVGSRRVKAQTFAERRE R SFRSWSDP TPKMADTSHDSRSDSLQSSHCTLDEAFEDLDWDT BKGLEAVACDTEGFVPPKVMILISSKVPKAEYIPTIIRDDPSII PILDHEHATFEDILEEIERKLNLYHKGAKIWKMLIFCQGGPGH LYLKKNKVATFAKVEKEEDMIHFWKRLSRLMSKVNPEPNVIHIM GCYILGNPNGEKLFQNLRLTMTPTPYRVTFESPLELSAQGKMIET YDFRLYRLWKSQRHSLKLLDFFDVL
6664	58	968	PRLLRLPRSVVVMDSPPWDELALAFSRTSMPPFFDIAHYLVSVMA VKRQPGAALAWKNPISSWFTAMLHCFGGGILSCLLLAEPLKF LANHTNILLASSIWIYITFFCPHDLVSQGYSLPVQLLAGMKKEV TRTWKIVGGVTHANSYKNGWIVMIAIGWARGAGGTIITNFERL VKGDWKEGDEWLKMSYPAKVTLGLSVITFTQHTQHLAISKHN L MPLYTIFIVATKITMTTQTSTMTFAFFEDTLSWMLFGWQPPFS SCEKKSEAKSPSNGVGSLSKSPVDVASDNVKKKHTKKNE
6665	171	1278	DERRLACRQVVTQQRSELYPGFQKRQFLFKAGEEAAAQGGHRL PGRNLGPGCTQNPCSVHTATGPEPRKLPLLPDPSNPGYPKEPA ALCPGIPSPCRMTHQDLSITAKLINGGVAGLVGVTCTVFPIDLAK TRLQNQHKGAMYKGMIDCLMKTARAEGFFGMYRGAANLTLVTP EKAIKLAANDFFRLLMEDGMQRNLKMEMLAGCGAGMCQVVVTC PMEMLKIQLQDAGRLAVHHQGSASAPSTSRSYTTGSASTHRRPS ATLIAWELLRTQSLAGLYRGLGATLLRDIPFSIIYFPLPANLNN LGFNELAGKASPAHSFVSGCVAGSIAAVAVTPLDVLKTRIQT LK KGLGEDMYSGITDCAR
6666	498	2868	MTTFLPVPQMMAGFSFGTFGNPPMESPSAWQTIHQPFIVSCLTL WSPGCWQPQIQKEGVGLWDIRKQSSLLRYGGNLSLQSAWSVRF NSNGTQLLALRRRLPPVLYDIHSRLPVPQFDNQVYFNSCTMKSC CFAGDRDQYILSGSDDFNLYMWRI PADPEAGGIGRVVNGAFMVL KGHRSIVNQVRFNPHTYMICSSGVEKIIKIWSPYKQPGCTGDL D GRIEDDSRCLYTHEEYISLVNLSGSGLSHDYANQSVQEDPRMMA FFDLSVRREIRGWSSDSDSLSESTILQLHAGVRSERSGYTDSSES SASLPRSPPTVDESADNAFHLGLRVTTTINTVASTPPTPTCED

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			<p>AASRQQLSALRRYQDKRLALSNESEDSEENVCEVELDIDLFPFR PRSPSPEDSSSSSSSSSSSEDEELNERRASTWQRNAMRRRQKT TREDKPSAPIKPTNTYIGEDNDYDYPQIKVDDLSSSTSPSPERST STLEIQPSRASPTSDIESVERKIYKAYKWLRYSYISYNNKDG TSLVTGEADEGRAGTSHKONPAPSSSKEACLNIAAQRNQDLPP EGCSKDTFKETPRTPSNGPGHEHSSHAWAEVPEGTSQDTGNSG SVEHPFETKLNKALSSRAEPPSPVPKASGSTLNSGSGNCP RTQSDDEERSLETICANHNNGRLHPRPPHNNQNLGELEV AYSSPGHSDTDRDNSSLTGTLLHKDCGSEMACETPNAGTREDDP TDTPATDSSRAVGHSGLKQRORIELEDTSSENSSEKKLKT</p>
6667	171	1310	<p>AEVERLAAMRSDSLVPGTHTPPIRRRSKPFANLGRIFKPKWKWK KKSEKFKHTSAALERKISMRSREELIKRGVLKEIYDKDGLSLI SNEEDSLENGQSLSSSSQLSLPALSEMEPVMPRPDPCSYEVLPQS DIMDGPDPGAPVKLPCLPVKLSPPPLPPKVMICMPVGGPDLSLV SYTAQKSGQGQVAQHHTVLPQIQHQLQYGHGHLPSSTTGSL BMHPSGCRMIDELNKTAMTMRLESSEQRVPCSTSYHSSGLHS GDGYTKAGPMGLPEIRQVPTVVICDDNKENVPHESDYEDSSCL YTREEEEDEDDDDSSLYTSSLAMKVKCKDSLAIKPSNRPSKR ELEKNILPRQTDDEERLELRQQIGTKL</p>
6668	714	358	<p>TLAVATGPALTLRCHVCTSSSNCKHVVCPASSRFCKTTNTVEP LRGNLVKKDCAESCTPSYTLQGVSSGTSSTQCCQEDLCNEKLH NAAPRTALAHSAISLGLALSLLAVILAPSL</p>
6669	459	1207	<p>KDETRKDYDYMLDHPEEYYSHYHYYSRRLAPKVDVRVILVS VCALSVFOFFSWWNSYNKAI SYLATVPKYRIQATEIAKQQLLK KAKEKGKKNKSKEEIRDEENIKNIIKSKIDIKGGYQKPKQICD LLLFQIILAPPHLCYIVWYCRWIYNFNKIGKEYGEEERYIIR KSMKMSKQFDSLEDHQKETFLKRELWIKENYEVYKQEQEELK KKLANDPRWKRYRRWMKNEGPGRLTFVDD</p>
6670	184	594	<p>VARI*GEAAKMSSEPPPPYPGGTAPLLEEKSGAPPTPGRSSPA VMQPPPGMPLPPADIGPPPYEPGHPMPQPGFIPPHMSADGTYM PPGFYPPPGPHPPMGYYPPGPYTPGPYPGPGGHTATVLPVSGAA TTVT</p>
6671	1	763	<p>LPAEKPRSAFNMAGGRCGPQLTALLAAWIAVAATAGPEEAALP PEQSRVQPMNTASNTLVMEGENMLKFYAPWCPSCQOTDSEWEAF AKNGEILQISVGKVDVIEPGLSGRFFVTTLPAFFHAKDGIFFR YRGPGEFEDLQNYILEKKWQSVPLTGWKSASLTMSGMAGLFS ISGKIWHLLHNYFTVTGLGIPAWCSYVFFVIATLVFGLSMDLVL*V ISQCNWDFPYRHVS*/RPSTNLGVHTAHTSEHLRL</p>
6672	304	1089	<p>APGSKPVQFMDFEKTSFGMSVFNLSNAINMGSGILGLAYAMAHT GVIFFLALLLCIALSSYSIHLLLTACAGIAGIRAYEQLGQRAFQ PAGKVVAATVICHNVGAMSSYLFIKSELPLVIGTFLYMDPEG DWFLKGNLLIIIVSVLIIPLALMKHLGLGYTSGLSLTCMLFF LVSVIYKFKQLGLCYRATMKQWSEALVGTPOPRDSTA AVKAQ MFHS*LTGVLTQWPIMAFAFVCHPGGAGPSITELCRAFOAQD</p>
6673	1116	1963	<p>LQIQTHHTHHGARVTHLGSHQLLANAGTMLCRQSSSMAPAFSQ SVTCGSPCVRKQESATKCLHIGACGSDLWARGWEQG*G*GLNV WLCPCVAFHRRGARPAEEGGARWNSLVSSPWIPPNP*HSSIGAE NAVPRP*QG*KVNPSGQERQS\WVLPPLVPGEPLKPLPGLPG*NK SFSRV/SGSKGWILPRLM*AS*R\TPRFVPGTQWVPITW/PL ITWH*SAPTPLKACAPRESDPSCSSCLSCPCVTOHPRFSDTGW FGAGHCHSSCDFTRKGAAGGPG</p>
6674	1	440	<p>LEFDYMCQYDYEVDRDGDNRDQIYKRVCGNERPAPIQSIGSSL HVLFSHSDGSKNFDGFHAIYEEITACSSSPCFHDGTCVLDKAGSY KCACLAGYTGQRCENLLEERNCSDPG/WPSQWVPENNRGPWAYQ PTPC*IGTRVAFFLT</p>

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6675	277	1678	GNWPTERMAFLDNPTTILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSPMPGDSGSEIQGSNGETQGYVYAQSVDTSSWDFGIR RRSNTAQRLERLRERQNIQCKNIQWKERNKQSAQELKSLFE KKSLEKEKPPISGKQSILSVRLQCPQLNNPFNEYSKFDGKGHV GTTATKKIDVYLP LHSSQDRLLPMTVVIMASARVQDLIGLICWQ YTSEGREPKLNDNVSAAYCLHIAEDDGEVDTFPPPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFVRINAAGFSLIQVDNTKVTM KEILLKAVKRRKGSQKVSGRADGVFEEDSQIDIATVQDMLSSH HYKSPKVSIMHRLRFTTDVQL/GCALFPGLVRKRAAPVDCLRPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPIISIDSDLLCAC\DLAEE
6676	277	1678	GNWPTERMAFLDNPTTILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSPMPGDSGSEIQGSNGETQGYVYAQSVDTSSWDFGIR RRSNTAQRLERLRERQNIQCKNIQWKERNKQSAQELKSLFE KKSLEKEKPPISGKQSILSVRLQCPQLNNPFNEYSKFDGKGHV GTTATKKIDVYLP LHSSQDRLLPMTVVIMASARVQDLIGLICWQ YTSEGREPKLNDNVSAAYCLHIAEDDGEVDTFPPPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFVRINAAGFSLIQVDNTKVTM KEILLKAVKRRKGSQKVSGRADGVFEEDSQIDIATVQDMLSSH HYKSPKVSIMHRLRFTTDVQL/GCALFPGLVRKRAAPVDCLRPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPIISIDSDLLCAC\DLAEE
6677	277	1678	GNWPTERMAFLDNPTTILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSPMPGDSGSEIQGSNGETQGYVYAQSVDTSSWDFGIR RRSNTAQRLERLRERQNIQCKNIQWKERNKQSAQELKSLFE KKSLEKEKPPISGKQSILSVRLQCPQLNNPFNEYSKFDGKGHV GTTATKKIDVYLP LHSSQDRLLPMTVVIMASARVQDLIGLICWQ YTSEGREPKLNDNVSAAYCLHIAEDDGEVDTFPPPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFVRINAAGFSLIQVDNTKVTM KEILLKAVKRRKGSQKVSGRADGVFEEDSQIDIATVQDMLSSH HYKSPKVSIMHRLRFTTDVQL/GCALFPGLVRKRAAPVDCLRPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPIISIDSDLLCAC\DLAEE
6678	221	865	GPSNQSSGSLSLIVTGCSYYS*INDTCTILRLVSSNFGRO*LR PFPCSQLEMSQGLWHLDCPPWVPIPGQWRKGRQMRN*QS LLGSDQESVGLDLCVFNFLHVLGLFP*PHELFLLPVVDLG FLFPLLLQGGCHCLVLPANLVSAQPIQKLSRLQTHDLEGSRN HHPLFLVVRWDVAVKHLETVQSGLASLGFVGQHTSHGPP
6679	2	786	LEFARGAMPFLGQDWRSPGQNWVKTVDGWKRFLEKSGSFVSDL SSYCNKEVYNKENLFSNLNYD/SCSQEKEGHA*ONQNS\DPH QEKWIYVHKGSTKERHGYCTLGEAFNRDLDFSTAILDSRRFNYV RLLELIAKSQLTSLSGIAQKNFMNILEKVVLKVLQEDQNTILIR ELLQTLTYSLCTLVKRVGKSVLVGNINMWVYRMETILHWQQQLN NIQITRVSGQAQPPPGSGSLHRDTGQTRQDFEFTPTVTEESGLF
6680	1498	2951	PLCTFLMPSALPGWAGERWEKQWPLA/PGPGTWQTPVGSISSE P/RKNEPDTHCPRGEARPEV*HLPKPHSPGSEGAETQSA*ALP /NQVSPQPM*GAENGQDQGGKEEAGEELHRSSSGLTAAPGF EVHRNLQTFPGLPSRGGP/GGAGTQGSWAPGEQPP/SELLPAS MQRSQAGLPGWEAGLVESPTHIPALRPSGTNATGEAFSTTCS SGP/PAPPPTGLRPGGSSSGGHG**PGLEVGKV/GALGAAQD PQSQGRGPTQGTGTEMLLSGLGSAKACPAARPAVP*LPSDPAS TIPKGTGRGEGPGVLQERNRWVVGRAQGFSTADAAGTAPPGV *LPAPLSQPPGATEPQVRACGMAPPSPGTSGRLVANGRHPPGQV AQGCCPPGAGCWGSPRGSQRCPRTYTHSLGHGRAPCPRRCW* WQDPSPSPRTGCLPGIPARQAYSAPRTSRPRTGRTGRTGRTGRT FQGGGGG

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6681	1169	511	INIIYYNQQRAPHELK\EKLMASAPALGLPDLTKLFTLHVSERE KMTVGVLTQTGVGWSRPGAYLSKQLDGVSKGWPPCPRALAATAL LAQEADBLTLRQNLNRKSPHA\VVTILINTKGHH*LINARLTRYQ TLLCENPHKTIEVSNT/LNPATLLLVTESPVKHNCLEVLDVSYS SRPNLRDHP*TSVDWELYVDGSGFANPCKVTLLKKETSAPVTPR S
6682	109	1238	TVLCGAMQVSSLNEVKIYSLSCGKSLPEWLSDRKKRALQKKDQV VRRRIELIQDFEMPTVCTTIKVSQDGYILATGYKPRVRCYDT YQLSLKFERCLDSEVVTFEILSDDYSKIVFLHNDRYIEFHSQSG FYYKTRIPKFGDRDFSYHYPSCDLYFVGASSEVYRLNLEQGRYLN PLQTDAAENNVCDINSVHGLFATGTIEGRVECDPRTNRNVGLL D\AP*TVSQIQR*TSLPTISALKFN\GALTMVGTGQVLLY DLRSKPELLVKDHQYGLPIKSVHFQDSDLILSADSRIVKMWNK NSGKIPTSLEPEHDLNDVCLYPNSGMLLTANETPKMGIYYIPVL GPAPRWCSFLDNLTEELEENPESNE
6683	109	1238	TVLCGAMQVSSLNEVKIYSLSCGKSLPEWLSDRKKRALQKKDQV VRRRIELIQDFEMPTVCTTIKVSQDGYILATGYKPRVRCYDT YQLSLKFERCLDSEVVTFEILSDDYSKIVFLHNDRYIEFHSQSG FYYKTRIPKFGDRDFSYHYPSCDLYFVGASSEVYRLNLEQGRYLN PLQTDAAENNVCDINSVHGLFATGTIEGRVECDPRTNRNVGLL D\AP*TVSQIQR*TSLPTISALKFN\GALTMVGTGQVLLY DLRSKPELLVKDHQYGLPIKSVHFQDSDLILSADSRIVKMWNK NSGKIPTSLEPEHDLNDVCLYPNSGMLLTANETPKMGIYYIPVL GPAPRWCSFLDNLTEELEENPESNE
6684	111	527	GLRGGTSRGRAGREPEFAAGVLCVAGFCQSPCPGGRGREAPA PP\SGRRHA*RPA*WLGPGGDSGGREEGGS/GELQRAMESKM LPLDINIQEPRWDQSTFLGRARHFFTVTDPNLLLSGAQLEAS RNIVQNYR
6685	258	1473	KLLGDNFEGFCNKFELSDSENGSNS*QSPL\FDRLFDPDQPKVL QGVIDMKNVIGNNKQKANLIVLGA VPRLLYLLQOETSSTELKT ECAVVLGSLAMGTENNKSLLDCHIIIPALLQGLSPDLKFIKAC LRCLRTIFTSPVTPPELLYTDATVIPHMLLSRSRYTQYEQ IFSHCCKGEDHQTILFNHGAQVQNIHLLTSLSYKVRMQALKCF S VLAFFENPQVSMTLVNVLDGELLPIFVKMLQDKPIEMQLTSA KCLTYMCRAGAI RTDDNCIVLKTLPCLVRMCSKERLLEERVEGA ETLAYLIEPDVELQRIASITDHLIAMLADYFKYPSVSAITDIK RLDHDLKHAHELROAAFKLYASLGANDEDIRKKVSLGEGRPV L TASRQGVTS
6686	310	927	DSVTFDDLAVDFTPKWETLLDPTQRLNLYRDVMLENYKNLATVGY QLFKPSLISWLEQEESESTVQRGDFQASEWKVQLTKELALQDQV LGEPTSSGIQMITGSHNGGEVSDVKQCGDVSEHSCLKTHVRTQN SENTFECYLYGVDFLTLHKKTSSTGEQSVFVSHVWKKPSSLNPDV VCQKNRCTRKKKAF*LQTLGKSFH*SIHT
6687	181	915	EAMLEAPYKKEEDEQQRKEVKDYPSNTTSSSTNSNGNETSGSST IGETSNRSRDRDRYRRNRSRSPGRQCRHRSRSDRRHGESR SRDHRREDRVHYRSPPLATGEPVDNLSPEERDARTVFCMLAAR IRPRDLEFFSAVGKVRDVRIISDRNRRSKGIAYVEFCEIQSV PLAIGLTGQRLLGVP IIVQASQAEKNRLAAMANNLQKNGGPMR LYVGSLLHFNITEDMLRGIPEPFGKV
6688	1025	1	AEVPNYPRVFHKKPDSWRFKFPQIQLQPYILLSFSSSEKPPISF SEGPLPR/SATARMATAAAPPNSSIDLPSDSGMGFIS PAGDSDL LPSDGGTGFFSLAGDSSSTRSLAFISFSLSSSVSGSAGTTS STSVGSVVAFTSSSSSSTNRDVAGLDFSTVITSVSGSLVPSRE VAVICGSKGAGASGSASCSSRAGKTTAATAASSMPSGTSSFTS TMSELEELFSLFSPAPLLSKLFTSSGSIATCCQDSGSPSDTGR L VCQLWLADSDTGKLSDCQEVVTVGDSGGLTCEPSLGRM*MSLL

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6689	640	1299	SSAVIPGYSSSSDSRLNTVPTVDLLCPFQTKSST SSSASYATSATSISDTAFSGSLKLKHGLLSALDSSSRTS*STSS AEDSTFRICSPSVSDTSSDSSGSKDNVILFSKVSI*SCFSLSS FFSDSISFCFSSSSFCR*FVSSKVSQNALSSRLSNGPGSSK QRNSLTARQLAMSL*ATKF*RNACPNCLSSSKSAL*LSLNQRF GGASARKPGNISFNSQKCSALSYYCNFVIXPREVSVSSENYPAF
6690	1	442	GTRGKMAATLGLGSWQWRRCLRSARDGSRMLLLLLLLSGGQGP QQVAGQTFEYLKREHSLSKPYQGVGTGSSSLWNLMGNAMVMTQ YIRLTQPMQSKQAGLWNRVPCFLRDWELQVHFQIHHGQGGKKNL\H GDGLATWYTKDRMQP
6691	287	1401	LKTETSEEKARRYKDRPSQLNAVFEQKKMIQAQESITLEDVAV DFTWEQWQLLGAQKDLRYDVMLENYNLVAVGQASKPDALFK LEQGEQLWTIEDGHSAGACSDIWKVDHVLRLQSESLVNRKPC HEHDAFENIVHCSKSQFLGQNHDI FDLRGKSLKSNLTLVNSK GYEIKNSVEFTGNGDSFLHANHERLHTAIKFPASQKLSTKSQF ISPKHQKTRKLEKHVCSECGKAFIKKSWLTDHQVMHTGEKPHR CSLCEKAFSRKFMTEHQRTHTGEKPYECCECGKAFLLKKSRLNI HQKTHTEKPYICSECGKGFQKGNLIVHQRHTGEKPYICNEC /GKGFIQKTCIAHQRFHTER
6692	178	939	WIKEGELSLWERFCANIKAGMPKHI AFIMDGNRRYAKKQVE RQEGHSQGFNKLAE TLRWCLNLGILEVTVYAFS IENFKRSKSEV DGLMDLARQKFSRLMEEKEKLQKHGVCIRVLGDLHLPLDLQEL IAQAVQATKNYNKCFNLNVCFA YTSRHEISNAVREMAWGEQGLL DPSDISESLDKCLYTNRSPHPDILIRTSGEVRLSDFLWQTS SCLVFQPVLPWEYTFWNLFEAILQFQMNHSLVQK
6693	178	939	WIKEGELSLWERFCANIKAGMPKHI AFIMDGNRRYAKKQVE RQEGHSQGFNKLAE TLRWCLNLGILEVTVYAFS IENFKRSKSEV DGLMDLARQKFSRLMEEKEKLQKHGVCIRVLGDLHLPLDLQEL IAQAVQATKNYNKCFNLNVCFA YTSRHEISNAVREMAWGEQGLL DPSDISESLDKCLYTNRSPHPDILIRTSGEVRLSDFLWQTS SCLVFQPVLPWEYTFWNLFEAILQFQMNHSLVQK
6694	292	813	SLLLHLAPPGAYTPSQPLSSVSTETASSVRRQAESRQHEL PVR EVHSLGQILPQDGLTAEAGPPEAQDPWGSPGISLPAAHIGFAAA LAVGPGSGCHTEP\FDEVWPSLFLGDAYAARDKSKLIQLGITHVV NAAAGKFQVDTGAKFYRGMSLEYGIEADDNPFDDL SVYFLP
6695	292	813	SLLLHLAPPGAYTPSQPLSSVSTETASSVRRQAESRQHEL PVR EVHSLGQILPQDGLTAEAGPPEAQDPWGSPGISLPAAHIGFAAA LAVGPGSGCHTEP\FDEVWPSLFLGDAYAARDKSKLIQLGITHVV NAAAGKFQVDTGAKFYRGMSLEYGIEADDNPFDDL SVYFLP
6696	1	782	PRVRGRVGERWAFSLVPAAMSSSEMEPLLLAWSYFRRRKQFOLCAD LCTQMLEKSPYDQAAWILKARALTEMVYIDEIDVDQSGIAEMML DENAIQVPRPGTSLKLPCTNQTGGPSQAVRPITQAGRPTITGFL RPSTQSGRPGTMEQAIPTPTATYARPTITSSSGRFVRLGTASML TSPDGPFFINLSRLNLTKYSQKPKLAKALIEYIFHHENDVKTALD LAALSTEHSQYKDWK/DQIEKCYRVGMVREAEKQIKSS
6697	3	782	PFLFLRLNSRALRPGSRKVMVVPASLSGQDVGSFAYLTTKDR IPQILTQVIDTLHRHKSEFFEKHGEGBVEAKKAI SLLSKLRNE LQTDKPFIPLEVKFVDTDIWNQYLEYQOSSLNESDGKSRWFYSP WLLV\ECYMYRRIHEAI\IQSPPIDYFDVFKESKEQNFYGSQES IALCTHLQQLIRTI EDLD\ENQLKDEFFKLLQISLWGEISVDL SL\SGGESSQNTNVNLNLEDLKPFILLNDEHLWSLLSNCK
6698	668	754	VGSCACAGSCKCKECKCTSCCKSECRAPP
6699	325	492	EGELE/ PARRVLPAMTASAPGRGRPGVGUVVVTSCKHPRCV LLGKRKGSVGAGSFQLPGGHLEFGGTWECAQRETWEAALHLK NVHFASVVNSFIEKENYHYVTILMKGEVDVTHDSEPKNVEPEKN

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6700	1098	1392	ESKRIIYNHAFFQESKWSGGILQ TQCWRSSTPGMRTHFRTQF/RLECGQGFSSQENGHCMDTNECICQ FFPVCPRDKPVCVNTYGSYRCRTNKKCSRGEYPNEDGTACVERT LLGLCNLLGK
6701	2	1485	AAAGPRTRVRAAAFEQPPSPSPGLGPTSDKAAAPRTPKRRRLW RORQ/HPAMLCYVTRPDVLMVEVEAKANGEDCLNQVCRRLGI IEVDYFGLQFTGSKGESLWLNLRNRISQQMDGLAPYRLKLRVKF FVEPHILQEQTRHIFLHIKEALLAGHLLCSPEQAVELSALLA QTKFGDYNONTAKYNYEELCAKELSSATLNSIVAKHKELEGTSQ ASAEYQVLQIVSAMENYGIWHSVRDSEGGKLLIGVGPEGISIC KDDFSPINRIAYPVVQMATQSGKNVYLTVTKESGNSIVLLFKMI STRAASGLYRAITETHAFYRCDTVTSVMMQYSRDLKGHLASLF LNENINLGKKYVPDIKRTSKEVYDHARRALYNAGVVDLVSRRNNQ SPSHSPLKSSESSMNCSSCEGLSCQQTRVLQEKLRKLKEAMLCM VCCEBEINSTFCPCGHTVCCESCAALQVQGESAAHFCLQPHLSL LLTGSRSQVLAR
6702	397	1971	PLAKFLKLDLVNVLCLPMEDVFLFYRTCFCSMGLGSSCHLSLPK RAEALLCSRKATVVRDLVAVRMAEEQEFTQLCKLPAQPSHPHCV NNTYRQAQHSQALLRGLLALRDSGLFDVVLVVEGRHTEAHRIL LAASCDYFKGMFAGGLKEMEQUEVLIHGVSYNAMCQILHFIYTS ELELSLSNVQETLVAACQLQIPEIIHFCCDFLMSWVDEENILDV YRLAELFDLSRLTEQLDTYILKNFVAFSRTDKYRQLPLEKVYSL LSSNRLEVSCETEVEYGALLYHYSLEQVQADQISLHEPPKLEET VRFLMEAEVLQRLHDKLDPSPLRDTVASALMYHRNESLQPSLQ SPQTELRSDFFQCVVGGGIHSTPS\MSSATRPKYLNPLLGWKK FTASLAPRMSNQGIIVLNNFVYLIGDNNVQGFRAESRCWRYP RHNRFQIQSLQOEHADLSVCVVGRIYIYAVAGRDYHNDLNAVER YDPATNSWAYVAPLKREYVAHAGATLEGKMYITCGRKGRT
6703	45	1244	GVGPRAAAMPLELELCPRGWVGQHPCTFIAEIGONHQGDLDA KRMIRMAKCCGADCAKFKSELEFKFNKALERPYSKHSWGKT YGEHKKHLEFSDHQYRELQRYAEVGIFFTAGSMDMAVEFLHE LNVFFFKVSGDNTNPPYLEKTAK/TRGWHSVLRDVCVQVQNLDE TSSWDVLGRVRSKEKVLMLVLDYSGRPMVISSGMQSMDTMKQ VYQIVKPLNPNFCFLQCTSAAYPLQPEDVNLRVISEYQKLFPDIP IGYSGHETGIALSVAVALGAKVLERHITLDTKWKGSDHASLE PGELAEVLRSVRLVERALGSPTKQLLPCEMACNEKLGKSVVAKV KIPEGTILTMDMTLVKVGEFPGYPPEDIFNLVGGKVLVTVEEDD TIMEE
6704	82	1007	TMNTRNRVNSGLGASPASRPTTRDPQDPSGRQGEISPVEDQREG LEAAPKGPSRESVUHAGQRRTSAYTLIAPNINRRNEIQRIAEQE LANLEKWKQONRAKPVHLVPRRLGGSQSETEVRQKQLQLMQSK YKQKLKREESVRIKKEAEAEALQMKKAIQREKSNKLEKKRLQE NLRREAFREHQYKTAEF/LQTEHRIARQKCLSKCCLWPTILN MQQKLGLO\DSLKAEENRKLQMKDEQHQKSELLELKRQOQEQE RAKIHQTEHRRVNNAFDLRLQGSQPGGLEQSGGCWNMNSGNSW GI
6705	2	786	RLCRNSARVPCGWSASRSLGEGAGFIGPLRGPHPRAGGTGTSFT SYKRRGGIMSTIAAFYGGKSILITVATGFLGKELMEKLFRTSPD LKVIYILVRPKAGQTLQHRVFQILDSKLFKVI EVRPNVHEKIR AIYADLNQNDFAISKEDMQBELLSCTNIIIFHCAATVRFDDTLRHA VQLNVTATRQLLLMASQMPKLEAFIHISTAYSNCNLKHIDEVII PCPVEPKKIIDSLEW\LDDAIIDEITPKLIRDWPNIIYTYTK
6706	130	531	PTHSSSSSHSQEMLGKLNMLRNDGHFCDITIRVQDKIPRAHKVVL AACSDFFRTKLVGQAEDENKNVLDLHHVTVTGFIPLLEYAYTAT LSINTENI IDVLAAASYMQMFSVASTCSEFNKSSILWNTPNSQP EK

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6707	2233	1343	YWSGIYVELQHFFHWRKFFHEFKKGPPSTCQBRLYESRSRWPCIS*GMVVVGWTVANGSW*GGQLRCVCVCTSHSSDSTRSSQRAKSKCHSFFILSQ*KT*SSWENWVFAKYSRIYSYGHSCSKGRGD*DFK*NVSQAR*SRFCGLCNPCGHCGLDINLRGGSSPWTDKHSCVHNLLCNRVFSLLCEGPGHCYQGAVCREACAAASPLGDSAAEPHRLCEHTD*LPK*GPGYIQHFHCDNSNILCILYNISPNLFSYSF*GVARYAC*ACHWYFEWLLYNHCGDILVACL*RRQL*SSQ
6708	115	1729	TVGSWSRSRSPVGRQLLLTGRGAQAAGSPQGGMALQVELVPTGEIIRVVHPRPCKLALGSDGVRVTMESALTARDRVGVQDFVLLENFTSEAAFIENLRRRFRENLIYTYIGPVLVSVPYRDI.QIYSRQHMERYRGVSFYEEPPHLLAVADTVVRALRTERRDDQVMISVESGAGKTDATKRLLQLYAETCPAPQRGGAVRDRLQSNPVLEAFGNAKTLRNDNSRFGKYMDVQDFKGA*PVGGHILSYLLEKSRVVHQNHGERNFHIFYQLLEGCEETLRLRLGLERNPQSYLYLVKGQCAKVSSINDKSDWKVVRKALTVIDTFDEVEDELLSIAASVLHLGNIIHFAANESNAQVTTENQLKYLTRLSSVEGSTLREALTHRKIIAKGBELLSPNLNQAAAYARDALAKAVYSRTFTWLVGKINRSLASKDVESPSNRSTTVLGLLDIYGFZVFQHNSEFQFCINYCNEKLQQLFIELTLKSEQEEYEAEGLAWEPVQYFNKKIICDLVEEKFKGII\SI LDE\ECLRPE
6709	3	894	PPHEHLFPSSGERGPFSLVSRRLGPGKMGKKGKKEKKGRAEKTAAMEKKVSKRSRKEBEDLEALIAHFQTLDAKRTQTVELPCPPSPRLNASLSVHPEKDELILFGGEYFNGQKTFLYNELVYVYNIKRDWTWKVDIPSPPPRCAHQAVVVPQGGQLWVFGGEFASPNGEQFYHYKDLVVLHLATKTWEQVKSTGGPSGRSGHRMVAWKRLILFGGFHSTRDYIYNDVYAFNLDFTTWSKLSPSGTGPTPRSGCQ\IPSLPRAASSVYGGYSKQVRVKDQVDKGTTRHSDMF
6710	158	980	RHKMTNRYRVSSSGRAARKMLALMGPAFIAAIGYIDPGNFATNIQAGASFGYQLLWVVWANLMAMLIQILSAKLGIAATGKNLAEQIRDHYPRPVVWFYVWQABI IAMATDLAEFIGAIGFKLILGVSLHQGAVLTGIAITFLILMLQRRGQKPLEKVIIGLGLLVAAAYIVELIFSQPNLAQLGKGMVIPSLPTSEAVFLAAGVL\GATIMPHVI/YIWHSSLTQHLHGGSROQRYSATKWDVAIAMTIAGFVNLAIMATAASELNFYHGTGVA
6711	3	347	VTECKTMTCKMSQLERNI*TMINTLHHYSVKLGHPDTLIHGEFKELVRTDLHNILMKENKNDQAI*HIMEDLDTNAMQIIFKELIMLMAMLTWSYHDNMHDADYGPQGQHRPG
6712	118	578	PHGQKRTRYQPQVRAPGQQAQALAMALCLQVFAKDKTFRPRKRFEPTQRFEELYKKAQSLKSGLDLRSVVRLLPGENIDDWIAVHVVDFFNRINLIYGTMAERCS*TSQPMAGGPRYEYRWQDERQYRRPAKLSAPRYMALLMDWIESLI
6713	2485	3	QARGSDSEDGEFEIQAEDDARARKLGPRPLPTFPTSECTSDVEPDREMVRQAQKKKKSGGFQSMGLSYPVFGKIMKKGYKVPTPIQRKTIPIVILDGKDVVAMARTGSGKTCFLLPMFERLKTHSAQTGARALILSPTRELALQTLKFTKELGKFTGLKTALILGGDRMEDQFAALHENPDIILATPGRVLHVAVEMSLKLQSVYEVVVFDEADRLFMGFAEQLQEIILARI.PGGHQTVLFSATLPKLLVFEFARAGLTEPVLIRLDVDTKLNEQLKTSFFLVREDTKAAVLLHLHLNVVRPQDQTVVFVATKHAEYLTELLTQORVSCAHIYSALDPTARKINLAKFTLGKCSLIVTDLAARGLDIPLLDNVINYSFPKAGKFLHVRGRVARAGRSGTAYSLVAPDEIPYLLDLHLFLGRSLTLARPLKEPSGVAQVGDMLGRVPQSVDDEDSGLQSTLEASLELRGLARVADNAQQQYVRSRPAPSPESI KRAKEMDLVGLGLHLPLFSSRFEEELQRLRLVDSIKNYRSRATIFEINASSRDLCSQVMRAKRQKORKAIAIRFQQGQQGRQEQQEGPVGPAISRPALEQKPEKEEBEAGESVEDIFS EVVGRKRQRSGPNRGAARRREARQRDQEFYIPYRPKQDFDSERG

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			LSISGEGGAFFQQAAGAVLDLMGDEAQNLTGRQQLKWRKKKR FVGQSGQEDKKIKITSGRYISSSYKRDLYQKNKQKQKID*S*L GRRRGILTRRRPRTEEVGEARPLAQAGCIPGPHAPRHPLQAESA LELKTQKQILKQRRRAQKAALSQRWWQAALCPQ
6714	169	1416	NNCQELLPPPPAPMAHIPS GGAPAGAAPMGFYCVCKVELSVS GQNLDRDVTSKSDPFCVLFTEENNGRWIEYDRTEAINNLNPAF SKKFVLDYHFEVQKLKPFALFDQDKSSMRLEHDFLGQFSCSLG TIVSSKKITRPLLLNDKPKAGKGLITIAAQLSDNRVITLSLAG RRLDKDLFGKSDPFLEFYKPGDDGKMWLVHRTVIVKYTLDPVW KPTVPLVSLCDGDMKPIQVMCYDYDNDGGHDFIGEFQTSVSQ MCEARDSVPLEFECINPKKQKKNYKNSGIIILRSCKINRDYS FLDYILGGCQLMFTVGIDPTASNGNPLDPSSLHYINPMGTNEYL SAIWAVGQIIQDYDSDKMFPALGFGAQLPDPWKSHEFAINFNP TNPFCSGVVDGIAQAYSACL
6715	32	493	GPAGAESGSLHCLPATVQALAGAAHSPHGQPPRRGPLIGSGMP GKPKHLGVPPNGRMVLAUSDGELSSTTGPGQGGEGRGSSLSIHS PSGPSSFPFTEEQPVASWALSFERLLQDPLGLAYFTEFLKKEFS AENVTFWKACERFQQIPASDT
6716	1	176	GAGGPAPRSFSGSEEFRAALERDKMSARAAAAKSTAMEETAIWEQ HTVTTLHRVSLCCSK
6717	115	896	LFAMSGFENLNTDFYQTSYSIDDSQSSYDYGSGGPGYSKQYAG YDYSQGRFVPPDMMPQPPYTGQIYQPTQAYTPASPQPFYGN FEDEPPLBELGINFDHIWQKTLTVLHPLKVADGSIMNETDLAG PMVFLCAFATLLLAGKIQFGVYVIGISAIGCLGMFCLLNLMSMT GVSFGCVASVLGYCLLPMILLSSPAVIFSLQGMVGIIITAGITG WCSFSASKIFISALAMEGQQLLVAYPCALLYGVFALISVF
6718	290	599	KQSSVTPGTLPLSLKWHNSGLCKFPETGGKMTTFKEGLTFKDVA VIFTEELGLLDPVQRNLYQDVMLENFRNLLSVGHHFPKHDFVL LEKEKKLDIMKTATQ
6719	1	691	PTREEQDREDGKCHKMEMNPISGNLNCDPIAMSQCSSDHGCET DLSDDDDKIEKPNFMKDSASQDNGLSRKISRKRVCSSDSDSSL QVVKSSKARTGLLRITRRCAATAANKIKLMSDVEDVSLNVHT RSKNGRKKPLHLACTTAKKKLSDCEGSVHCEVPSEQYACEGKPP DPDSEGSTKVLSQLNGSDSDMLNSEKHRTNIHKIDAPSK RKSSSVTSSG
6720	3	822	HEVAEEAGGTVPYQRTMPGTRFQHVITPEPGKWELTGYEAA VPITEKSNPLTQDLKADAENIVRLGQCDAEIFQEEGQALSTY QRLYSESILTMVQVAGKVQEVLEKPDGGLVVLSSGGTSGRMAF LMSVSNQMLKGLGQKPLYTYLIAGGDRSVVASREGTEDSALHG IEELKKVAAGKKRVIVIGISVGLSAPFVAGQMDCCMNNTAVFLP VLVGFPVSMARHPFPPRILRSLTVFPPSLRAPHYQITSLLFMS SVVTLLISE
6721	3	822	HEVAEEAGGTVPYQRTMPGTRFQHVITPEPGKWELTGYEAA VPITEKSNPLTQDLKADAENIVRLGQCDAEIFQEEGQALSTY QRLYSESILTMVQVAGKVQEVLEKPDGGLVVLSSGGTSGRMAF LMSVSNQMLKGLGQKPLYTYLIAGGDRSVVASREGTEDSALHG IEELKKVAAGKKRVIVIGISVGLSAPFVAGQMDCCMNNTAVFLP VLVGFPVSMARHPFPPRILRSLTVFPPSLRAPHYQITSLLFMS SVVTLLISE
6722	1	390	RSWSKRTWQALPMAVFLFLFLCGTPQAADNMQAIYVALGEAVE LPCPS PSTLHGDEHLSWFCSPAAGSFTTLVAQVQVGRPADDPGK PGRESRLRLGNYSWLWEGSKEEDAGRYWCAVLGQHNYQNW
6723	173	659	VCQYCTARMADFGISAGQFVAVVWDKSSPVEALKGLVDKQLQALT GNEGRVSVENIKQLLQSAHKESFDIILSGLVPGSTTLHSAEIL AEIARILRPGGCLFLKEPVETAVDNNKVKTASKLCSALTSLGL

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6724	173	659	VEVKELQREPLTPPEVQSVREHLGHESDNL VCQYCTARMADRGISAGQFVAVVWDKSSPVREALKGLVDKLQALT GNEGRVSVENIKQLLSAHKESSFDIILSGLVPGSTTLHSAEIL AEIARILRPGGCLFLKEPVETAVDNNSKVKTASKLCSALTLSGL VEVKELQREPLTPPEVQSVREHLGHESDNL
6725	356	722	RRRTPPVILATMDDDLMLALRLQEEWNLQEAERDHAQESLSLVD ASWELVDPTPDLOALFVQFNDQFFWGQLEAVEVKWSVRMTLCAG ICSYEGKGGMCSIRLSEPLKLRPRKDLVEVFFV
6726	98	714	HLQKMERKINRREKEKEYEGKHNSLEDTDQGNCKNSTLMTLNVG GYLYITQKQTLTKYPDTFLEGIVNGKILCPFDADGHYFIDRDGL LFRHVLNFLRNGELLLPEGFRENQLLAQEAFFOLKGLAAEEVKS RWEKEQLTPRETTFLFITDNHDSRQGLRIFCNAPDFISKIKSRI VLVSKSRLDGFPPEEFSISSNIIQFKYFIK
6727	1	831	FRGMGDERPHYVGKHTPQKYDPTFKGPIYNRGCTDIICCVFLL LAIVGVAVGIIAWTHGDPKRVITYPTDSRGFCGQKGTKNENKP YLFYFNIVKASPLVLLLEFQCPTPQICVEKCPDRYLTLYLNARS RDFEYKQPCVPGFKNNKGVAEVLRDGDCPAVLIPSKPLARRCF PAIHAYKGVLMVGNETTYEDGHGSRKNITDLVEGAKKANGVLEA RQLAMRIFEDYTVSWYWDIISLGIAMAMSLFIIILRFLAGIMG RGMIMGILVLGY
6728	486	935	PCSSWLRLSLADSSLSWKMFVLVLTGGTASGKSSVIQVFOQLGCA VIDVDVMARHVQPGYPAHRRIVEVFGTEVLENGDINRKVLGD LIFNQPDRLQLNATHPEIRKEMMKETFKYFLREPTSPRGGK HVPSALKEADSLMRDT
6729	259	1191	VGLTGAQSGRTASMGDRQRAVAGPALRRWLLGTVTVGFLAQSV LAGVKKFDVPCGGDRDCSGGCQCYPEKGGRGQPGVPGQYNGPP GLQGFPGQGRKGDKGERGAPVGTGPKGDVGARGVSGFPDGI PGHPGQGGPRGRPGYDGCNGTQGDGSGPQGGPSEGFTGPPGPGQ PKGQKGEYPALPKEERDRYRGEPEGLVGFQGGPPGRPGHVGOM GPVGAPGRGPPGPPGPKGQGNRGLGFYGVKGEKGDVGQPGPN GIPSDTLHPIIAPTGVTFHPDQYKGEKGSSEGEPIRGISLKGEE GIM
6730	784	1015	NMVDYYEVLGLQRYASPEDIKKAYHKVALKWHPKNPNKEEAE RKPFKEVAEAYEVLNDEKRDIDYKYGTEGLNEF
6731	1	446	GIRKRLHGAUVPRVEVGCWPWETRESEGVHLERPTSPLKNDEGS LDIYAGLDSAVSDSASKSCVPSRNCLDLYEELTEEGTAKEATY NDLQVEYGGCQLQMKELMKKFKEIQTQNFSLINENQSLKKNISA LIKTRAVEINRKDEEI
6732	102	1205	GRWQRRPPPPSPPLWCLQPGGSDPQOLTQLRHCLSHSPQDTPW AQRQVCYTAATTQAAAPATRNCLPDHSGHRPTPPSRHHRHQEN LGSIKPSSSRSTKATSTTMAGDGRRAEAVREGWGVYVTPRAPIRE GRGRLAPQNGGSSDAPAYRTPPSRQGRREVRFSDPEPEVYGDPE PLVAKERSPVGKTRTRLEEFRRSDSAKEEVRESAYYLRSRQRRQPR POETEEMKTRRTTRLQQQHSEQPPLQPSVMTRRGLRDSHSSSE DEASSQTDLSQTISSKTVRSIQEAPAVSEDLVIRLRPPPLRYPR YEATSVQQKVNPFSEEGETEEDDQSSHSVTVKARSRDSDESG DKTTRSSSQYIESFW
6733	613	1311	RSCRQVGMRSRNQGGESASDGHISCPKPSYIGNAGEKSLSEDAK KKKSNRKEDDVMSGTVKRHLKTSGBECERKTKKSLSKEDLI QLLSIMEGELQAREDDVIHMLKTEKTKPEVLEAHYGSAPKVLRL VLHRDAILAQEKSIGEDVYEKPISELDRLEKQKETYRRMLEQL LLAEKCHRRTVYLENEKHKHTDYMNKSDDFTNLLEQERERLKK LLEQEKAYQARKE
6734	189	551	SAAMFPVFGSCFQELQEKNSLELVSPFEVAVHFTWEEWQDLDD AORTLYRDVMLETYSSLSVLGHCITKPEMIFKLEQGAEPWIVEE

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6735	280	558	TLNLRLSGGSKQVFSGICHRSLVELQEVHLV KSRAGVTKMSNPFLKQVFNKDKTFRPKRFEPGTFORFELHKA QASLNAGLDRLAVQLPPGEDLNDWVAVHVVDFFNRVNLITYGTI XDGCT
6736	195	808	MNYELNFKREMPNISKSLGLTNLNLFLKRLSSVLPLITDYVYFEN SSNPYLIRRIEELNKTASGNVEAKVVCFYRRRDISNTLIMLAD KHAKEIEBESETTVEADLTDKQKHQLKHRELFLSRQYESLPATH IRGKCSVALLNETESVLSYLDKEDTFFYSLVYDFSLKTLADKG EIRVGPRYQADIPPEMLLEGTFFCVFAVL
6737	150	1209	PVIMPLHFSPGDIVRPSCCVSSSPKLRRAHRSLESYRFDLTL REDTGCNLQHISDRENIDDLNMEFNPSPDHPRASTIFLSKSQTDV REKRKSLFINHHPPGQIARKYSSCSTIFLDDSTVSQPNLKYTIK CVALAIYHHIKNRDPDGRMLLDIFDENLHPLSKSEVPFDYDKHN PEQKQIYRFVRTLFSAAQLTAECAIVTLVYLERLLTYAEDICP ANWKRIVLGAILLASKVWDDQAVWVNDYQCILKIDITVEDMNELE RQFLELLQFNINVPSSVYAKYVFDLRSLEANNLSFPLEPLSRE RAHLEAISRLCEDKYKDLRRSARKRSASADNLTFRWSPAIIS
6738	148	653	CACAEQPARAEVGAATAPVRWASGEMAPSGSLAVPLAVLVLLL WGAFTWTHGRRSNVRVITDENWRELLEGDWMIEFYAFWCPACQNL QPEWESFAEWGEDLEVNIAKVDVTEQPGLSGRFIIITALPTIYHC KDGEFRYQGPRTKKDFINFISDKKWKSIIEPVSSWF
6739	3	631	SWPDMAEVEVAKLEKHLMLLRQEVYVKLQKLAETEKRCALLAAQ ANKESSESSEFISRLLAIVADLYEQEQYSDLKIKVGDRIHSAHKF VLAARSDSWSLANLSSTKELDLSANPEVTMTMLRWIYTDELEF REDDVFLTELMKLANRFQLQLLRERCEKGVMSLVNVRNCIRFYQ TAEELNASTLMNYCAEI IASHWVSEVEGVNKAL
6740	3	631	SWPDMAEVEVAKLEKHLMLLRQEVYVKLQKLAETEKRCALLAAQ ANKESSESSEFISRLLAIVADLYEQEQYSDLKIKVGDRIHSAHKF VLAARSDSWSLANLSSTKELDLSANPEVTMTMLRWIYTDELEF REDDVFLTELMKLANRFQLQLLRERCEKGVMSLVNVRNCIRFYQ TAEELNASTLMNYCAEI IASHWVSEVEGVNKAL
6741	141	960	PLTLPFSSRRARAGHTMNTSPGTVGSDPVILATAGYDHTVRFWQA HSGICTRTVQHQSQVNALEVT PDRSMIAAAVQPVSLGYQHIRM YDLNSNNPNPI ISYDGVNKNIASVGFHEDGRWMTGGEDCTARI WDLRSRNLQQRIFQVNAPINCVCLHPNQAELIVGDQSGAIHIW DLKTDHNEQLIPEPEVSITSAHIDPDASYMAAVNSTLVPPFSCLL PLAIGILQEGEFESLARRGLLFLACQGNICYVWNL TGGIGDEVTO LIPKTKIP
6742	141	960	PLTLPFSSRRARAGHTMNTSPGTVGSDPVILATAGYDHTVRFWQA HSGICTRTVQHQSQVNALEVT PDRSMIAAAVQPVSLGYQHIRM YDLNSNNPNPI ISYDGVNKNIASVGFHEDGRWMTGGEDCTARI WDLRSRNLQQRIFQVNAPINCVCLHPNQAELIVGDQSGAIHIW DLKTDHNEQLIPEPEVSITSAHIDPDASYMAAVNSTLVPPFSCLL PLAIGILQEGEFESLARRGLLFLACQGNICYVWNL TGGIGDEVTO LIPKTKIP
6743	1	412	MHSTQDKSLHLEGDPNPSAAPTSTCAPRKMFKRISISKQLASVK ALRKCSDLKAIATTAIIFRNSSDSGKLEKAIADLLQTQFRN FAEGQETKPKYREILSELDEHTENKLD FEFMILLISITVMSDL LQNIR
6744	95	1343	RTPARNRCAGCEVLSRFSSPNKASSFALQSAGGGLPAVRALRRD RQKVSTVGYGMDEVEQDQHEARLKELFDSFDTTGTGSLGQEEIT DLCHMLSL EEVAPVLQQTLLQDNLLGRVHFDQFKEALILLSRT LSNEEHFQEPDCSLEAQPKYVRGGKRYGRSLPEFQESVEEFPE VTVIEPLDEEARPSHIPAGDCSEHWKTQRSEYEAEQGRLRFWNP DDLNASQSGSSPPQDWIEEKLQEVCEDLGITRDGHLNRKKLVS I

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			CEQYGLQNV DGEML EEFHNLDPDGTMSVEDFFYGLFKNGKSLT PSASTPYRQLKRHLSMQSFDESGRRTTTSSAMTSTIGFRVFSCL DDGMGHASVERILD TWQEEGIENSQEI LKALDPGLDGNINLT TLALENELLVTKNSTHOACI
6745	1	588	TFRDQGW AQRRRWLLGCASWESWEAAIAAGPGLPSSSTARQONNP AAGTECF AAVWARGTAMGSVLS TDSGKSAPASATARALERRRDP ELPVTSFDCAVCLEVLHQPVTRCRGHVFCRSCIATSLKNNKWT PYCRAYLPSEGVPA TDVAKRMKSEYKNC AECDTLVCLSEMRI RTCKYIDKYGLQLEETA
6746	110	492	GATGAMAESA PARHRRKRSTPLTSS TLPSQATEKSSYFQTTEI SLWTVVAIQAVEKKMESQAARLQSLEGRTGTAEKKLADCEKMA VEFGNQLLEGKWA VLGTL LQEQYGLLQRRLENVENLLRNRN
6747	247	484	EAVTFKDVA VVFTTEELGLL DLAQRKLYRDVMLENFRNLLSVGH QPFHRDTFHLR EEFKFWMMDIATQREGNSVYAGVC
6748	201	665	MTTFKEAVTFKDVA VVFTTEELGLL DPAQRKLYRDVMLENFRNLL LSVGNQPFHQDTFHLGKEKFWKMTTSQREGNSGGKIQIEMET VPEAGPHEEWSQQIWEQIASDLTRSQNSIRNSSQFFKEGVDVPC QTEARLSISXVQQKPYRCNECKQ
6749	95	719	RREVKGGDGVCPFRARGSPQSQQFPSCAGGGEGLQSQSGEALDGM SAGGPCFAAAGGGPGGASC SVGAPGGVSMFRWLEVLEKEFDKAF VDVDLLGEIDPDQADITYEGRQKMTSLSSCFAQLCHKAQSVSQ INHKLEAQLVDLKS ELTETQAEKVVL EKEVHDQLLQLHSIQLQL HAKTQQSADSGT IKAKLSGSPVEELERELKAN
6750	3	428	SCESRRPGAKWVWASGALPRDTTGLGSEQPSGDVAQSNRATMGT TAPGP IHLLEL CDQKLM EFLCNMNDKDLVWLEEI QEEAERMFTR EFSKEPELMPKTPSQKNRRKKRRI SYVDENRDP IRRRLSRRKS RSSQLSSRR
6751	152	1417	PTKATEMAGASVKVAVRVPFNSREMSRDSKCI IQMSGSTTTI NPKQPKETPKSFSFDYSYWSHTSPEDINYASQKQVYRDIGEEML QHAFEGYNVCI FAYGQTGAGKSYTMMGKQEKDQGGIIPQLCEDL FSRINDTTNDNMSYSVEVSYMEIYCERVDLLNPKNGNLRVRE HPLLGPPYVEDLSKLAVTSYNDIQDLMDSGNKARTVAATNMNETS SRSHAVFNIIFTQKRHDAETNITTEKVKISLVDLAGSERADST GAGKTRLKEGANINKSLTTLGKVISALAE MDSGPNKNKKKKKTD FIPYRDSVLTWLLREN LGNSRTAMVAALSPADIN YDETLSTLR YADRAKQIRCN AVINEDPNNKLI RELKDEVTRLRDL LVAQGLGD ITDMTNALVGMSPSSSLSALSSRN
6752	24	1834	RNCVPP LGCYRSRVKFHSDIKMQYSHHCEHLLERLNKQREAGFL CDCTIVIGEFQFKAHRNVLASPFSEYFGAIYRSTSENNVFLDQSQ VKADGFQKLEFIYTGTLNLDSWNVKEIHQAADYLKVEEVVTKC KIKMEDPAFIANPSSSTEISSITGNIELNQQTCLLTLDYNNREK SEVSTD LIOANPKQ GALAKKSSQTKKKKKAFNSPKTGQNKTVQY PSDILENASVELFLDANKLPTPVVEQVAQINDNSELELTSVVEN TFPAQD I VHTVTVKRKRGKSQPN CALKEHSMN IASVKS PVEAE NSGEELDQRYSKAKPMCNTCGKVPSEASSLRHMR IHKGVPYV CHLCKAFTQCNQLKTHVRHTTGEPYKCELC DKGFAQKQCQLVF HSRMHGEKFPYKCDVCNLQFATSSNLKI HARKHSGEKP YVCDR CGQRFQAQSTLT YHVRHTGEPYVCDTCGKAFAVSSSLITHSR KHTGEKPFICELCGNSYTD IKNLKKHKT KVHSGADKTLDS SAED HTLSEQDSIQKSPLSETMDVKPSDMTLPLALPLGTBDHMLLPV TDTQSP TSDTL LRSTVNGYSEPLIFLQQLY
6753	2	1305	VPSPYPFPQKVVAHTEFTTSSDSETANGIAKPDVPMPGGEKAS PFGIKLRRTNYS LRFCNQQA EQKKKRHSSTGDSADAGPPAAG SARGEKEMEGVALKHG PSLPQERKQAPSTRRDSAE PSSSRSPVP AHPGPPASSQTPAPEHDKAANKMPLAQK PALAFKPTSQT PPAAS

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			PLSKLSRPYLVELLSRRAGRPDPPEPSEPSKEDQESSDRPPSPFP GPEERKQKRDDEEEATERKPASPLPATQOEKPSQTPEAGRKE KPMQLQSRHSLDGSKLTEKVETAQPLWITLALQKQGFREQQATR EERKQAREAKQAEKLSKENVSVSQPGSSSVSRAGSLHKSTALP EEKRPETA VSRLEERREQLKANTLPTSVTVEISYSSPAAPLVKE VSKRFSSPDDAPVSSEPAWLALAKRKAKAWSDCPLIIK
6754	2	413	FVRRRRRLGGPEVNTMSSLHKSRIADPDVLKEPSIALEKLRE LSFSGIPCEGGLRCLCWKILLNYLFLERASWTSILAKORELYAQ FLREMI IQPGIAKANMGVSREDVTFEDHFLNPNPDSRWNTYFKD NEVLL
6755	298	1343	PGLQLOVALEADWFLDMPGRRGSPSRQQLSRSALEPSLQTLVGGG CGNGTGLRNRNGSALGLPVPPI TALITPGPVRHCQIPDL PVDGG LLFEPLFFIYLLVALFIQYINIKTVWVYPYNHPASCTSLNFHL IDYHLAAFTVMLARRLVWALISEATKAGAASMIHYMVLISARL VLLTLCGWVLCWTLVNLFRSHSVLNLLEFLGYFPFVYVPLCCFHQ DSRAHLLLDYNYVVQHEAVEESASTVGLAKSKDFLSLLESL KEQFNATPIPTHSCPLSPDLIRNEVECLKADFNHRIKEVLFNS LFSAYYVAFPLCEVVKVSGYLTFMCFDLDCVNYINWVFLV
6756	180	754	TERALGSLPLSTIPVSWGSLRTLKYQQQLRPFKVLCCQTRVQCHD LRSLOPQPGLKQSFCLRVLGLQTGATTPGLRDLTCKELIILTE REAQRKKRKEKESGMALTQGPLTFRDVAIEFSQEWSLDPVQ KALYWDVMLENYRNLVFLGKDNFALEVKICPRVFLYFLCCLSW PFHYLTETEALLTHK
6757	2	459	NSRVEAPEAHSRESQGSAMRKHLSWNNLATVCMLLFSHLSAVQ TRGIXHRKIKWNRKALPSTAQITAEQVAENRPGAFIKQGRKLDID FGAEGNRYEANYWQFPDGIHYNGCSEANVTKEAFVTGCINATQ AANQGEFQKPDNKLHQQVLW
6758	1	1008	ASGPELPGRPRDRAPWLPARLLRGVLAVVLSALGPGSFCRR RVPSLAQGLHSEAAPSPDDVRSRVPDRCEERDRAWPPPPPPS LPSPFRNMANNSPALTGNSQPQHQAAAAAQQQQCGGGGATK PAVSGKQGNVLPWLGNEKTMNLPMLTNLSSPYFKVQVYELK TYHEVVDEIYFKVTHVEPWKEGSRKTAGTGMCGGVRGVGTGGI VSTAFCLLYKLTFLKTRKQVMGLITHTDSPYIRALGPMYIRYT QPPTDLWDWFESFLDDEEDLDVKAGGGGCVMTIGEMLSRFLTKLE WFTLFPRI PVPVQKNIDQQIKTRPKI
6759	1	513	RKHNFHSLDGTSTRAFPQTGLPLSSPVPQRKTQSGCFDLDS LLHLKSFSSRSPRCLNIEDDPDIHEKPFLSSSAPPITSLSLG NFEESVLNRYRFDPLGIVDGFTEAVGASGAFCTHLLTPVEVSFY SVSDDNAPSPYMGVITLESIGKRGYRVPSPGTIOVVCVL
6760	239	606	VLSKKKGLSABEKRTRMMEIFSETKDVFLKDLKIAPEKEGKIT AMSVKEVLQSLVDDGMVDCERIGTSNYWAFPSKALHARKHKE VLESQLESGSQKHASLQKSIEKAKIGRCETEERT
6761	29	1733	ERTLRGLREVAAPSDVADAASRRGRCCCLHCTQTQVAQDCPS SSSVQRCLESLFQSLHTMTSKKLVSNSVAGCADDALAGLVACNP NLQLLQGHRAVLRSDLSLKGVRALLSGGSGHEPAHAGFIGKG MLTGVIAGAVFTSPA VGSILAAIRAVAQAGTVGTLIVKNYTG RLNFGlareQARAEIPVEMVIGDSDAFTVLKKAGRRGLCGTV LIHKVAGALAEAGVGLLEIAKQVNVVTAMGTLGVSLSSCSVPG SKPTFELSADVELGLGIHGEAGVRRIKMATADEIVKLMLDHT NTTNASHVFPVQPGSSVMMVNNLGLSLFELGIADATVRSLEG RGVKIARALVGTMSALEMPGISLTLLLVDEPLLKLI DAETTAA AWPNVAVSI TGRKRSRVAPAEQAPDSTAAGGSASKRMALVL ERV CSTLLGLEEHLNALDRAAGDGCCTTHSRAARAIQEWLKEG PPASPAQLLSKLSVLLLEKMGSSGALYGLFLTAQAQPLKAKT SLPAWSAAMDAGLEAMQKYGKAAPGDRMTLDSLWAAGQEL

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6762	3	613	ASTISWRLCVAGAEARRPVPVAGERAGGGAMWFMVLLSWLSLFI QVAFITLAVAAGLYYLAELIEEYTVATSRIIKYMIWFSTAVLIG LVVFERFPTSMIGVGLFTNLVYFGLLQTFPFIMLTSPNFILSCG LVVVNHYLAFQFFABEYYPFSEVLAYFTFCLWIIPFAFFVLSA GENVLPTMQPGDDVVSNYFTKGRKG
6763	2	760	SGDPFPGRRFRGCCVRPPAGAGMELGGHWDNMSAPRLVSETAE RKQEQKTGTAEAADSGAVGARFLLCLYLGGFLDLFGVSMVVP LSLHVKSLGASPTVAGIVGSSYGILQFSSTLVGCWSDVVGRR SLLACILLASALGYLLGAATNVFLFVLARVPAGIFKHTLSISR ALLSDVVPKERPLVIGHFNTASGVGFI LGPVVGGVI TELEDGF YLTAFICFLVFI LNAGLVNFFPRREAKPGSTE
6764	80	438	LKKMDTMMLSVRNLFQQLVRRVEILSEGNEVQFIQLAKDFEDFR KXQRTDHLGKYKDLLMKAETERSALDVKLKHARNQVDVEIKR RQRAEADCEKLERQIQLIREMLMCDTSGSIQ
6765	3	550	ARYSRVDHFCRRRCRAVARAPFLLQFPSPSRHFLAACVARWL RGSVLVSEALSGSAMDGIVTEVAVGVKRGSDLLSGSVLSSPNS NMSSMVVTANGNDSKKFKGEDKMDGAPSRVLHIRKLPGEVTS TE VIALGLPFGKVNTNLMKGNQAFLELATERAAITNGNYYSAVT PHLRNQ
6766	1	1287	EGGSFKASLTWLWPLGEMKLHCEVEVISRHLPALGLRNRGKGV RAVLSLCQQTSSRSQPPVAFLLISTLKDKRGTREYELRENI EQFFT KFVDEGKATVRLKEPPVDICLSKANSSSLKGFSLAMRLAHRGCN VDTVPSTLTPVKTSEFENFKTKMVTISKDYPLSKNFFYSLEHL QTSYCGLVVRDMRMLCKSLRKLDSLHNHKKLPATIGDLIHLQ ELNLDNHNLESFVSALCHSTLQKSLSLDLKSNKIKALPVQPCQ LQELKLNKLDDELQIQQPKKIGQLINLRFLSAARNKLPPLPSEF RNLLELHLLFGNTFEQPKVLPVILQAPLTLLESSARTILHNR IPIVSGSHIIPFHLQDLDLTAICVCGRFLNSFIQGTITMNLHSV AHTVVLVDNLGGTEAPIISYFCSLGCYVNSDI
6767	336	919	APMICLCSDDLQFRYKEAFLRDRGLQGYCSVDDDFRMKHFNLV GRLOSDNEYKKDFAKSRSQFHSSTDPGLLQAKRSQQLASDVHY RQPLPQPTCDPEQLGLRHAQKAHQSDVKYKSDNLNLRGCVGT PPGSYKVMARRAAELANARGLGLQCAVYRGAEAVEAGDHQSGEV NPDATEILHVKKKKALL
6768	2	363	PGSTISCYLLSEGLPLCMQVACGEEKHRAPTMKTLRARFKKTE LRLSPDTLGSCPPCGPCPIPKPAARORRQSQDWGKSDERLLQAV ENNDAPRVAALIAKGLVPTKLDPEGKSAFHL
6769	284	396	MSTPDFSTAENNQELANEVSCIKAMLTLMQAMQAD
6770	1	397	QRNYQVINSSTMAKLDHYKDEVVKLMTFNYNSVMQVPRVEK ITLNMGVGEAIADKKLLDNAADLAAISGQKPLITKARKSVAGF KIRQGYPIGCKVTLRGERMWEFFERLITIAVPRIRDPRGLSAKS
6771	3	378	APAGTLAMTGKSVKDVDRYQAVLANLLEEDNKFCADCQSKGPR WASWNIGVFICIRCAIHRNLGVHISRVKSVNLDQWTQEQIQCM QEMGNGKANRLYEAYLPETFRPQIDPYLFWNSLEG
6772	1	1400	AAAFLOQMTVNGFINTVITSL\ERRYDLHSYQSGLIASSYDIAA CLCLTFVSYFGSG\HKPRWLWGR\VLMTGSLVFPALPHFTAG P**GWKLDAGVRTCPANPR\PVCAG\HTSGLSRYQLVFMGLQFL HGVGATPLYTLGVTYLDENVKSSCPIYIAIFYTAAILGPAAGY LIGGALLNIYTEMGRRTLETESPLWVGAWVVGFLGSGAAAFFT AVEILGYPROLPGSQRYAVMRAEMHQLKDSRGEASNPDGKT IRDLPLSIWLLKXNPTFILLCLAGATEATLITGMSTFSPKFLES QFSLSAFEATLFGYLVVPAGGGGTFLGGFFVNKLRLRGSVAVIK FCLFCTVVSLLGILVFSLHCPSPVMAGVTASYGGSLLPEGHNL TAPCNAACSCQPBHYSVPCGSDGLMYFSLCHAGCPAATETNVDG QXVYRDCSCIPQNLSSGFGHATAGKCTST

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6773	1	630	PWEAPKEHKYKAEHTVVLTVTGEPCHEFFQYHRQLYHKCTHKG RPGPQWCATTNFDQDQRWGYCLEPKKVKDHCSKHSPCQKGGT CVNMPSPGPHCLCPQHLTGNCQKEKCEPQLLRFFHKNEIWIYRT EQAAVARCQCKGPDACQRLASQACRTNPNCLHGGRCLEVEGHRLL CHCPVGYTGPPCDVGE*GSGASRRPAPRWDLAR
6774	146	389	LTELSDQOYFLEFFILSS/WVPTFLSMDVDGRVIKADSFSKI ISS GLRIGFLTGPPLIERTVILHIQVSTLHPSTFNQLMISQ
6775	104	614	TCPSQLRVLTARGGRRAPSPQLWTLVLALIEEKWRSHRILRMNS GRPTEMENLPALYTIQGEVAMVTDYGAFIKIPGCRKQGLVHRT HMSSCRVDKPEIIVDGVKVVVVLIGREMKNDRIVSLMKVVN QGTGKDLDPNNV\SLSKKRGGGDPSRITLGRSPLRLS
6776	3	1108	HERHERHEGALSQDALLRISIPLDSNMREKCRFVHPQWQLLH LNGTFPNTSDADMEPCVDGWVYDRISFSSTIVTEWDLVCDQSLL TSVAKFVFMAGMMVGGILGGHLSDRFGRFVLRWCYLQVAIVGT CAALAPITFLYCSLRFLSGIAAMSLTNTIMLIAEWATHRFQAM GITLGMCPSGIAFMTLAGLAFARDWHILQLVSVVPYFVIFLTS SWLLESARWLIINNKPPEGLKELRKAHRSGMKNARDTLTLEIL KSTMKELEAAQKKKPFGLERLHMPNICKRISLLPFTKFANFMA YFGLNLHG/LKHLGNVFLQLTFLGAV/TPPGQLVLHLGHWSG RVSSRGRVNCGLFVLQVW
6777	779	63	CFFHGPARDCEVRATFAKKQGGSGIISCIASFAPQPLACGSY GRSLGLYAWDDGSPALALGGHQGGITHLCPHDGNNRFFSGARKD AELLCDLRLQSGYPLWSLGREVTTNQRIYFDLPTGQFLVSGST SGAVSVWDTDGPNDGKPEPVLSFLPQKDCNTNGVSLHPSLPLLG HCLPVSVCFSLPTESGGRRRGAGPSLSPRRHVHLECRLLQWLWC GGGARLQHP**SPRARKGR
6778	311	805	IQSITDESRSIRRRKNPANTRRLNVP/EETAGDSE/ERSPEER VQADPRIASAPKCPSTSSPFPKGRSPEGEGET/DPEKVHFHGP KDKSVAEKN\KGP\SPVSSSEGIKDFFSMKPEWENLNQSNVRMH T\AVRLNEVIVKSRDAKLVLNMPGPPRRNRNGDENY
6779	2	535	RALRRQPRLLAANGIEPESMAISEPIKGRKPCVNKEELAKKP MAKCAWKGPREEPPQDARAESAESPGGASESDQGGHESPPKKKAV AWVSAKNFAPMRKKKVSLSLGPVSIVLVDSEDRKKKPVMPKKGPG SRREASDQKAPRGQQAETASTSRGPKAKPEGSPRRATNESRK V
6780	3	403	HEVNDNKPEININLMSPGKEEISYIFEGDFIDTFVALVRVQDKD SGLNGEIVCKLHGHHGFKLQKTYENNYLILTATLDREKRSEYS LTVIAEDRGTPSLSTVKHFTVQINDINDNPPHFQRSRYEFVISE K
6781	1	1269	APTRPVFPTLQDLSSSKEPSNSLNLPHSNELCSSLVHPFELSEVS SNVAPSIPPVMSRPVSSSSISTPLPPNQITVFVTSNPITTSANT SAALPTHLQSALMSTVVTMPNAGSKVMVSEGSAAQSNARPQFI TPVFINSSSIIQVMKGSQSPSTIPAAPLTNSGLMPPSVAVVGPI HIPQNIKFSAPVPPNALSSSPAPNIQTGRPLVLSSRATPVQLE SPPCTSSPVVPSHPPVQVKELNPDASPVNTSADQNTLPSSQ STTMVSPLLTNSPGSSGNRRSPVSSSKGKGKVDKIGQILLTKAC KKVTGSLEKGEQYQADGETEGQGLDTTAPGLMGTEQLSTELDS KTPTPPAPTLLKMTSSPVGPGTASAGPSLPGALPTSVRSIVTT LVPELISAVPTTKSNHGGIASESLAG
6782	3	1327	RKPTVIRIPAKPGKCLHEDPQSPPLPAEKPIGNTFTSVSGKLS NVERTRNLESNHGQTGGFVVPRLPPRPVNGKTIPTQPPPTK VPPERPPPKLSATRRSNKKLPFNRSSSDMDLQKKQSNLATGLS KAKSQVFNQDPLVPPRPKPGHPLYSKYMLSVPHGIANEDIVSQ NPGELSCKRGDVLVMLKQTENNYLECQKGEDTGRVHLSQMKLIT PLDEHLRSRPNPFSPPKAPSHAQKPVDSGAPHAVVLHDFPAEQV

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			DDLNLTSGEIVYLEKIDTDWYRGNCNRNQIGIFPANYVKVIIDI PEGGNGKRECVCSSHCVKGSRCVARFEYIGEQQDELSFSEGEIII LKEYVNEEWARGEVRGRTGIFPLNFVEPVEDYPTSGANVLSKV PLKTKKEDSGSNSQVNSLPAEWCEALHSTAETSDDLFSFKRGDR I
6783	3	1750	SYHHHHAQQSAAASPNTASQKTVTTTSMITTKTLPLVLKAATA TMPASVVGQRPTIAMVTAINSQAVALSTDVQNTFVNLOTSSKVT GPGAEAVQIVAKNTVTLQVQATPPQPIKVPQFIPPPRLTPRPNF LPQVRPKPVAQNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTL PTSQNSIHPVRVVGQTATIAKTFPMAQLTSIVIATPGTRLAGP QTVQLSKPSLEKQTVKSHETDEKQTESRTITPPAAPKPKREEN PQKLAFMVSGLVTHDHLLEEQSKRQERKRRTANPVYSGAVFE PERKKS AVTYLNTMHPGTRKRGRPPKYNAVLGFGALTPTSPQS SHPDSENEKTETTTFTFPAPVQPVSLPSTSTDGDIHEDFCSVC RKSGQLLMCDTCSRVLHLDCLDPPLKTIKPGMWICPRCQDQMLK KEEAI PWPGLT LAIVHSYIAYKAAKEEEKQLLKWSSDLKQEREQ LEQKVQLSNSISKMEMKNTILARQKEMHSSLEKVKQLIRLIH GIDLSKPVDSSEATVGAISNGPDCTPPANAATSTPAPSPSSQSCT ANCNQGEETK
6784	3	1750	SYHHHHAQQSAAASPNTASQKTVTTTSMITTKTLPLVLKAATA TMPASVVGQRPTIAMVTAINSQAVALSTDVQNTFVNLOTSSKVT GPGAEAVQIVAKNTVTLQVQATPPQPIKVPQFIPPPRLTPRPNF LPQVRPKPVAQNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTL PTSQNSIHPVRVVGQTATIAKTFPMAQLTSIVIATPGTRLAGP QTVQLSKPSLEKQTVKSHETDEKQTESRTITPPAAPKPKREEN PQKLAFMVSGLVTHDHLLEEQSKRQERKRRTANPVYSGAVFE PERKKS AVTYLNTMHPGTRKRGRPPKYNAVLGFGALTPTSPQS SHPDSENEKTETTTFTFPAPVQPVSLPSTSTDGDIHEDFCSVC RKSGQLLMCDTCSRVLHLDCLDPPLKTIKPGMWICPRCQDQMLK KEEAI PWPGLT LAIVHSYIAYKAAKEEEKQLLKWSSDLKQEREQ LEQKVQLSNSISKMEMKNTILARQKEMHSSLEKVKQLIRLIH GIDLSKPVDSSEATVGAISNGPDCTPPANAATSTPAPSPSSQSCT ANCNQGEETK
6785	1	528	LGNTVLHYCSMYSKPECLKLLLRSKPTVDIVNQAGETALDIKR LKATQCEDLLSQAKSGKFNPHVHVEYEWNLQRBEIDESDDDLDD KPSPVKKERSPRPQSFCSSSISPQDKLALPGFSTPRDKQRLSY GAFTNQIFVSTSTDSPTSPTTEAPPLPPRNAGKGTGPPITPHR
6786	1820	1397	RSPKVLVLAPTRELANHVSRDFKDI\TRKLTVARFYGGTSVQSQ INHIRNGIDILVGTGRIKDLQSGRLDLSKLRHVVLDEVDQML DLGFAEQVEDIIHESYKTDSEDNPTLLFSATCPQWVYTV\KK YMKSRYEQVDLDGKMTQKAATTVEHLAIQCHWSQRPVIGDVLQ VYSGSGRAIIFCETKKNVTMAMNPHIKQNAQCLHGDIAQSQR EITLKGFRGSPKVLVATNVAARGLDIPEVDLVIQSSPPQDVES YIHRSGRTGRAGRTGICICFYQPRERQQLRYVEQKAGITFKRVG VPSTMDLVKSKSMDAIRSLASVSAAVDFFRPSAQRLEEKGA DALAAALAHISGASSFEPRSLITSDKGFVTMTLESLEEIQDVSC AWKELNRKLSSNAVSQITRMCLLKGNMGVCFDVPTTESERLQAE WHDSDWILSVPAKLPEIEEYDGNSTSSNRQSGWSSGRSGRSG RSGGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSG FD*VFYHLVDLSDFLVDSVYLTGRQIDHLTGLTGLIDHLTSHS SVWN
6787	2646	2270	PSSFPPKNVPLEELEPPK*KRSGLGSLTPKSIQNGP*PQTFEF FELGSPSGVISAHCNRLRLGSSDSPAPASRVAGIIGTCHHAWLI LVFLVBMGFHHVQGAGLKLTL\VIHFPWPVKVGLQT
6788	16	936	GGTVDLR\DLAVSVLAAVRGGF/ATVRRVRESNVLHEKSKGR REGAEDKMTSGDVLNRRKMFYLLKTAFFPSVQINTEHVD\ELDQ

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			EVILWGS*DS*GYPKGK*LLPKVEVPSR/RVLLSGLTPLDATOE\FTEEDLSK\YVTTMVCVAVNGKPMGLGVHKKPFSEYTAWAMVDGGS NVKARSSYNEKTPIRVVSRSHSGMVQVALQTFGNQTTIIPAGG AGYKVLALLDVPDKSOEKADLYIHVYIKKWDICAGNAILKALG GHMTTSLSGEBISYTGSDGIEGGLLASIRNMHQAIVRKLPLEKT GHK
6789	2	678	GNGINVLKTIAPESAKFMAYEQIKRLVW**PGDS*GF/YERLVA GSLAGAIQSSIIYPMEVLKTRMALRKGTQYSGMLDCARRILARE GVAIFYKGYVFNMLGIIIPYAGIDLAVYETLKNALQHYAVNSAD PGVFVLLACGTMSSTCGQLASYPLALVRTRMQAASIEGAPEVT MSSLPKHILRTEGAFGLYRGLAPNFMKVIIPAVSISYVVYENLKI TLGVQSR
6790	2	4068	APPAGRRRMOAAPRAGCGAALLLWTVSSCLCRAWTAPSTSQKCD EPLVSGLPVAFSSSSSISGYSYSPGYAKINKRGAGGWSFSDSD HYQWLQVDFGNRKQISALATQGRYSSSDWVTQYRMLYSDTGRNW KPYHQDGNIAFPNINSIDGVVRHELQHPHIIARYVRIPLDWNW EGRIGLRIEVYGCYVADVINFDGHVVLPRFRNKKMKTLDKDI ALNFKTSESEGVILHGEQQQDYITLLEKKAKLVLSNLNLSNQL GPIYGHTSVMTGSLDDHHHWSVVIERRQGRSINLTDRSMQHFR TNGEFDYLDLDYEITFGGIPFSGKPFSSSRKQFKGCMESINYNG VNITDLARRKKLEPSNVGNLSFSCVEPYTPVFFNATSYLEVPG RLNQDLFSVSFQFRTWNPNGLLVFSHFADNLGNVEIDLTSKVG VHINITQTMSQIDISSGSLNDGQWHEVRFLAKENFAILTIDG DEASAVRTNSPLQVKTGEKYFFGGFLNQMNSSSHSVLQPSFQGC MQLIQVDDQLVNLVEVAQRKPGSFANVSIDMCATIDRCVPHNCE HGGKCSQTWDSFKCTCDETGYSGATCHNSIYEPSCEAYKHLGQT SNYYWIDPDGSGPLGLPKVYCNMTEDKVMTIVSHDLQMQTPVVG YNPEKYSVTQLVYSASMDQISAITDSAEYCEQYVSFYCKMSRLL NTPDGSFYTWVVGKANEKHYWGGSGPGIQKACGIERNCTDPK YYCNCADADYKQWRKDAGFLSYKDHLPSQVVGDTDRQGSSEAKL SVGFLRCQGRNYWNAASFNPSSYLHFSFTQGETSADISFYFK TLPFWGVFLENMGKEDFIKLELKSATEVSFSFVVGNGPVEIVVR SPTPLNDDQWHRVTAERNVQASLQVDRLPQOIRKAPTEGHTRL ELYSQLFVGAGGQQGFLGCIRSLRMNGVTLDLERAKVTSGFI SGCSGHCTSYGTNCENGKCLERYHGYSCDCSNTAYDGTFCNKD VGAFPEEGMWLRVNFQAPATNARDSSSRVDNAPDQONSHPDLAQ EEIRFSFSTTKAPCILLYISSFTTDFLAVLVKPTGSLQIRYNLG GTREPINIDVDRNMANGQPHSVNITRHEKTI FLKLDHYPSVSY HLPSSSDTLFNSPKSLFLGKVIETGKIDQBIHKYNTPGFTGCLS RVQFNQIAPLKAALRQTNASAHVHIQGEVESNCGASPLTLSPM SSATDPWHLHDLSASADFPYNPGQQAIRNGVNRNSAIIGGVI A\VVI FTPLSLCTP\VLP*SR*HVS PHKGTLP IPNEAKGAGSRQK KPGRRPSMNDPPTSQRPIDESKKEWPHLRGGVYLAG
6791	1801	1193	TGHEGAKGEKGDGDLGPRGERGQHGPKEKGYGPIPEL/PGW SAVV*SWLTAASKVQAILLPQPLE*LGLQIAFMASLATHFSNQ NSGII FSSVETNIGNFDFVMTGRFGAPVSGVYFFTFSMMKHEDV EEVYVYLMHNGNTVFSMYSYEMKGS DTSNHA VLKLAGDEWV LRMNGALHGDHQRFTSTFAGFLFETK
6792	33	1073	VRHTNWGVDMYLFSLGSESPKGAIGHIVSTEXTILAVERNKVLL PPLWNRFTSWGFDFFSCCLSGSYGSDKVLMTFENLAHWGRCLCAV CPSPTTIVTSGTSTVVCWELSMTEGRPRGLRLRQALYGHTOAV TCLAASVTFSLLVSGSQDCTCILWDLHLTHVTRLPALHREGISA ITISDVSGTIVSCAGAHLSLWNVNGQPLASITTAWGEPAITCC CLMEGPAWDTSQIIITGSDGMVRVWKT/VGCEDEVCSWTASRRG APGSASKPKRPQVGEEPGLESRAGR*HCFDREAQQNQ/PVTAL AVSRNHTKLLVGDERRIFCWSADG*BERGSRGSGTTPVG

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6793	2340	805	GRKEANY\YGSILTQAGTVSLGLDAEGQEVFVFPFSAVLPMVAPND LVFDGWDISSLNLAEMRRRAKVLWDGLQEQLWPHMEALRPRPSV YIPEFTAAQNSARADNLIPGSRAQQLEQIRDIRDFRSSAGLDK VIVLWTANTERFCEVIPGLNDTAENLLRTIELGLEVSPSTLFAV ASILEGCAFLNGSPQNTLVPGALELAWQHRVFGGDDFKSGQTK VKSVLVDFLIGSGLKMTSIVSYNHLGNNDGENLSAPLQFRSKEV SKSNVVDMMVQSNFVLYTPGEEPDHCVVIKVVPYVGD SKRALDE YTSLEMLGGTNTLVLHNTCEDSLLAAPIMLDLALLTELQQRVSI CTMDPEPQTFHPVLSLSLFLFKAPLVPPGSPVNNALFRQSCI ENILRACVGLPPQNHMLLEHKMERPGPSLKRVPVAATYPMLNK KGPVPAATNGCTGDANGHLQEEPPMPTT*GPGHTVSRLEFLPAAP HDPTLKAPTNKGRCHFSPSTWGSWGL
6794	169	1349	DDVKKRKEASAH*EKPGPPSRPGVRGGRERAGGRGSHGARSCL EPAPPAPAPPEDHPDEEMGFTIDIKSFLKPGCKTYTQRCRLFVG NLPTDITEEDFKRLFERYPGESEVF INRDGFGFIRLESRTLAE IAKAELDGTILKSRPLRIRFATHGAALTIVKNLSPVVSNELLEQA FSQFGPVEKAVVVDDRGRATGKGFVEFAAKPPARKALERCDCG AFLLTTTPRPVIVEPMEQFDDDEGLPEKLMQKTQQYHKEREQPP RFAQPGTTFEYASRWKALDEMEKQREQVDNRNIREAKEKLEAE MEAAARHEHQLMLMRQDLMRQEELRLLEELRNQELQKRKQIQLR HEEHRRRREEMIRHREQEELRRQEGFKPNYMEYVCHFLR
6795	1740	1010	GPRRQTQVRDIIHEDSF*DWAAQETDCAQNSGERL*KGV/LENFS TMSKSAVKISLDLLSNPLCEQDQDILLNMVLTALDTAMKRMDAFNQ EKVNQIQKTVIEPLKKFGSVFPSLNMVAVKRREQALQDYRRLQAK VEKYBEKEKTGPVLAKLHQAREELRPVREDFEAKNRQLEEMPR FYGSRLDYFQPSFESLIRAQVYYSEMHKIFGDLSHQLDQPGHS DEQREERENEAKLSELRLALSIVADD
6796	48	683	GKEIQIPTIKLAWLLFGL*PVGALGKGVVSF**SHVALGQLGW LTRAVRSSWRWELCVSAQEVVSQRSA*SSPSPVGACPSLNPPET SVQEGRDCWQR*LPRLSFALVGQPGCWPGGAPPERCV*PGRCKW HLQSQVLR*ERRRCRCLPRFA*GWRRRHQRLGLGIHPAPLGST SPPHPEGNSQQCR*GWAAELRLPSSVVL*GKLG*
6797	1620	211	TERMTSPQPTRGSSCTRFSSMLWTSTWRCCTCHWAGMRMSVGV TLGPMAQQLLSASGTTTEATWTRPTHTLIRWLLTASRVDP ERPPPPPSDDLTLLESSSSYKNL/DAQIPQ/DWSMSPSTSG*RP LTSRASSIMRSRTAIPAS*SRLTKHTVGGSPSAWRPRPTSR S VSTPVSSSTETTASGSCLTWSSSPAPCPSSSAPAHSEASCK TSLWGSCGSGDGSSACSGWNLSMAGTSCSSPAMCSPSRAPS* RSASRPRTWRATTSAASSWAPRRWCWGA*SAT*PSSTTTISS PHCGWPCPASCASAAWLSSTWATASVAGSCWGPIM*SSAHSFW CLSACSRSSMGTTCL*RSPP\SGASRAAAWCGSSPSSTFTPSS ASSSTWCSASSRSSPAPTTPSSIPAAQAQRASCRPTSHSART APPPASSAAGAARPAAFSAAEGTPRRSIRCW
6798	3894	1696	STISWESLESWLNKATNPSNRQEDWEYIIGFCDQINKELEG*VS ALWGLRGSGLGRGTTMAKEGQPGSPRLSALECVLLVPQ/PQIA VRLLAHKIQSPQEWELQALTYLGDVSEKVKTKVIELLYSWTM ALPEEAKIKDAYHMLKRGQIVQSDPPPIPVDRTLIPSPPPPKNP VFDDEKSKLLAKLLKSKNPDDLQEAANKLIKSMVREDEARIQKV TKRLHTLEEVMNNVRLLEMLLHYSQEDSSDGDRELMKELFDQC ENKRRTLFKLASETEDNDNSLGDILQASDNLRSRVINSYKTIIEG QVINGEVATLTLPDSEGNQCSNQGTLDLAEALDTSNLSSVLA PAPTTPSSGIPILPFPQPASGPPRSRSSSQAEATLGPSSSTNAL SWLDEELLCLGLADPAPNVPPKESAGNSQWHLQREQSDLDFFS PRPGTAACGASDAPLLQPSAPSSSSSQAPLPPFPAPVVPASVP APSAGSSSLFSTGVAPALAPKVEPAVPGHHGLALGNSALHLDAL DQLLEAKVTSGLVKPTTSPLIPTTTTARPLLPFSTGPGSFLQ

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			PLSFQSQGSPFKGPELSLASHVPLESIRKPSALPVTAYDKNGF RILFHFAKECPGPRPDVVLVVVSMNLTAPLPVKSIVLQAAVPSK MKVKLQPPSGTELSPPSPFIQPPAAITQVMLLANPLKEKVRIRYK LTFALGEQLSTEVGEVDQFPPEQWGNL
6799	3894	1696	STISWESLESWLNKATNPSNRQEDWEYIIGFCDQINKLEG*VS ALWGQLRGSGGLGRGTTMAKEGQPGSPRLSALECVLLVPQ\QIA VRLLAHKIQSPQEWELQALTYLGRVSEKVKTKVIELLYSWTM ALPEEAKIKDAYHMLKRGQIVQSDPPIPVDRTLIPSPPRKPNP VFDDEEKSKLLAKLLKSKNPDDLQEAANKLIKSMVREDEARIQKV TKRLHTLEEVENNVRLLEMLLHYSQEDSSDGDRELMKELEFDQC ENKRRTLFKLASETEDNDNSLGDILQASDNLSRVINSYKTIIEG QVINGEVATLTLPDSEGNQCSNQGTLIDLAELDTTNSLSSVLA PAPTTPSSGIPILPPPQASGPPSRSSSSQAEATIGPSSTSNAL SWLDEELLCLGLADPAPNVFPKESAGNSQWHLQREQSDLDFFS PRPGTACGASDAPLLQPSAPSSSSSQAPLPFPFPAVVPASVP APSAGSSLFSTGVAPALAPKVEPAVPGHGLALGNSALHHLDAL DOLLEEAQVTSGLVKPTTSPLIPTTPARPLLPFSTGPGSPLFQ PLSFQSQGSPFKGPELSLASHVPLESIRKPSALPVTAYDKNGF RILFHFAKECPGPRPDVVLVVVSMNLTAPLPVKSIVLQAAVPSK MKVKLQPPSGTELSPPSPFIQPPAAITQVMLLANPLKEKVRIRYK LTFALGEQLSTEVGEVDQFPPEQWGNL
6800	404	1646	RRSPSTGLSPVPQSPSSPSLSDYSIPWSLLSGTIAWATPGK*AG *PQAW*LGLAPAIIFI/GLTRGRKQNKKEKMAEGGSGDVEDDAGDC SGARYNDWSDDDSDNESKSIWVYPPWARIQTEAGTRARARARA RATRARRAVQKRASPNSDDTVLSPOELQKVLCLVEMSEKPYILE AALIALGNNAAYAFNRDIIRDLGGLPIVAKILNTRDPIVKEKAL IVLNNLSVNAENQRLKVMNQVCDTITSRNLSVQLAGLRL TNMTVTNEYQHMLANSISDFRFLFSAGNEETKLQVLKLLNLAE NPAMTRELLRAQVPSSLG\SLFNKKENKEVILKLLVIFENINDN FKWEENEPTQNOFGEGLFFFLKEFQVCADKVLGIESHHDFLVK VKVGKFMALAEHMFPSQSE
6801	2	1755	SAEEFESQASVTMHDVDAESFEVLVDYCYTGRVLSLEANVERL YAASDMLQLEYVREACASFLARRLDLTNCTAILKFADAFGHRKL RSQAQSYIAQNFQQLSHMGSIREETLADTLAQLLAVLRDLSLD VESEQTVCHVAVQWLEAAPKERGPSAAEVFKCVRWMHFTEDQD YLEGLLTKPVKKYCLDVIEGALQMRYGDLKYSLVPVPSNSSS /R*QQQLSCICSRKSTPETGYVCQGDGDLWTQPSLS\RYDPY SGDIYTMPSPLTSFAHTKTVTSSAVCVSPDHDITYLAAQPRKDLW VYKPAQNSWQQLADRLLCREGMDVAYLNGYIYILGGRDPIITGVK LKEVECYSVQRNQWALVAPVPHSFYSFELIVVQNYLYAVNSKRM LCYDPSHNMWLNCSLKRSDFOEACVFENDEIYICIDIPVMKVYN PARGEWRRISNIPLDSETHNYQIVNHDQKLLITSTTPQWKQR VTVYBYDTREDQWINIGTMLGLLQFDSGFI CLCARVYPSCLEPG QSFI TEEDDARSESSETEWDLGDFSELDSESGSSSSFSDEWVWQ VAPORNAQDQGS
6802	157	1341	ETFPFLFFLLSKTPGKTASMAHFVQGTSRMIAESSTEHEKCAE PSTRKNLMNSLEQKIRCLEKQKRELLEVNQQWDQQFRSMKELYE RKVAELKTKLDAERFLSTREKDPHQQRKDRQREDDRQDLT RDLQREKEKERLNEELHELKEENKLLKGNLANKEKEHYEC EIKRLNKALQDALNICKSFSSECLKRSRVEFCHEEMRTEMEVLK QVQIYEEEDFKERSDRERLNEKEELQINETSQSQNLNLSQ IKACQMEKEKLEKQLKMYCPCPCGLVFHLQDPWVPTGPGAVQ KQREHPDYQWYALDQLPPDVQHKAN/DWCLAPPPVCCQAG/PR TPGLK*SSCLWLPKC*NFRFILSKESPSVEVHTNRERQQATRER G
6803	1	2203	KLSGRPYRHMGLVGTSKLYDIRKTIFTFTPOFIDQQQFYALDNG

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			KMIVEMLRDLSYLCSSRWMTGQPTITTFPISHSMLEDEGTSLNS SILAALRKMQDGYFGGARVQTGKLSFLTTSCTHLSFMDPGPE GKLYSEDDYDDNYDYLESGNWMNDYDSTSHARCDEVARVLDHLL AHTAPHPKLAPTSQKGGDRFQAQVQTTCDLMSLVTKAKELHVQ NVHMYLPTKLFQASRPSFNLLDSPHPRQENQVFSVRVEIHLPRD QSGEVDKALVQLKETSSSLQEQADILYMLYTMKGPDWNTLYN ERSATVRELLTELYGKVGIEIRHWGLIRYISGILRKKVEALDEAC TDLLSHQKHLTVGLPPEPREKTIAPLPYEALTQLIDEASBGDM SISILTQEIIMVYLAMYMRTPQGLFAEMFRLRIGLIQVMAELA HSLRCSAEAEATEGLMNLSPSAMKNLLHHILSGKEFGVERK/SVR PTDSNVSPAISIHEIGAVGATKTERTGIMQLKSEIKQVEFRRLS ISAESQSPGTSMTSPSSGSPFSAIDQSSSKDSRQGGQWRRRLDQ ALNRVPVGFYQKVKVQLQKCHGLSVEGFVLPSTTREMTPEIK FSVHVES/VLNVLLRPEYRQLLVEAILVLTMLADIEIHSIGSII AVEKIVHIANDLFLQEQKTLGP/DDITMLAKDPASG/ICTLR/YD SAPSGRFGTMTYLS/RAA/ATYVQEFEP/HSICAMQ
6804	1	951	GSPGKKEEKAKNKESLCMENSSNSSSSDEDEETKAKMTPTKKYN GLEEKRSKLRITGFGYSGFEVAEKRIKLNNNDERLQNSRAKDR KDVWSSIQQQWPKKTLKELFSDSDTEAASPPHPAPEEGVAEES LQTVABEESCSPPSVELEKPPPVNVDSKPIEEKTVEVNDRAEFP SSGSNFA* IPLPYLHLNRLHQSL*QKGSROQSSVTVSSEPLAPN QEEVRSIKSETDSTIEVDSVAGELQDLQSERE*LASRF*QCCEL KQ**SARTRTS*KSLYRSEKSEKSCGRKKFIKKAEEKP*SNSGK QQKEGKRHK
6805	1539	206	RQPDLYKYPGKSFVSVSESSSLSNLDLPKFADGIKARNRNQNYL VPSPVLRIIDHTAFSTEKSADIVICDEECDSPESVNQQTQRES IEVHTAEDVP IAVEVHAISEDYDIETENSSSESLODQDEEPPA KLCKILDKSQALNVTAQKWP LLRANSSGLYKCELFENSKYFS DLKQHMILKHKRTDSNVCRCVCKESFSTNMLLIEHAKLHEEDPYI CKYCDYKTVIFENLSQHIADTHFSDDLHYWCQCDVQFSSSELY LHFQHSCEDEQYLCQFCEHETNDPEDLHSHVNEHACKLIELSD KYNNGEHGQYSLLSKITFDKCKNFFVCQVCGFRSLHTNVNRHV ALHTKIPPHVCDDCGKGFSSMLE\IAKHLNSHLSEGIYLCQYW EYSTGQIEDLKIHLDFKHSADLPKHCSDCLMRFGNERELISHLP VHETT
6806	272	3794	VALCFPNSDFVMFMDAFYGCLLAELGPVPIEVPLTRKDAGSQQV GFLGSGCVFLALTDDACQKGLPKAQTGEEVAAFGWPPLSWLVI DGKHLAKPKDWHPLAQDTGTGTAYIEYKTSKEGSTVGTVSHA SLLAQCRALTQACGYSEATLTNVLDKRDAGLWHGVLTSMVNR MHVSVVPYALMKANPLSWIQKVC FYKARAALVKS RDMHWSLLAQ RGQRDVSLSSRLMIVADGANPWSISSCDAFLNVFQSRGLRPEV ICPCASSPEALTVAIRPPDLGGPPPRKAVLSMNGLSYGVIRVD TEEKL SVLTQDVGVQVMFGANVCVVKLEGTPYLCCTDEVGEICV SSSATGTAYYGLLGITKNVFEAVPVTTGGAPIFDRPFTRTGLLG FIGPDHLVFI VGKLDGLMVTGVRHNDVATALAVEPMKFVY RGRIVAFSVTVLHDDRIVLVAEQRPDASEEDSFQWMSRVLQAD SIHQGVGYCLALVPANTLPKAPLGGIHISETKQRFLEGLTHPCN VLMCPHTCVTNLPKPRQKQPEVGPASMI VGNLVAGKRIAQASGR ELAHLESDQARKFLFLADVLQWRAHTTPDHPFLFLLNNAKGTVT STATCVQLHKRAERVAALMEKGRLSVGDHVALVYPPGVLDLIAA FYGCLYCGCPVTVRPFHPQNLGTTLPVMI VEVSASACVLT QAVTRLLRSKEAAAADIRTWPTILD TDDIPKKIASVFRPPSP DVLAYLDFSSTTIGLAGVKMSHAATSALCRS IKLQCELYPSRQ IAICLDPYCGLGFALWCLCSVYSGHQSVLPVPLELESNVSLWLS AVSQYKARVTFCCYSVMEMCTKGLGAQGTGLRMKGVNLS CVRTC MVVAEER\RIALTQSF SKLFKDLGLPARAVSTTFGCRVNVVIC

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			LQGTAGPDPTTVYVDMRALRHDRVRLVERGSPHSLPLMESGKIL PGVKVIIAHTETKGLGDSHLGEI WVSSPHNATGYTYVYGEAL HADHFSARLSFGDTQTIWARTGYLGFLRRTLTASGRHDALY VVGSLEDTLELRGMRYHPIDIETSVIRAHRSIAECAVFTWTNLL VVVVELDGLQDALDLVALVTNVVLEEHLVVGVVIVDPGVIP INSRGEKQRMHLRDGFLADQLDPIYVAYNM
6807	1444	606	VGHDTVHAMFTCFPKCLGFSPPVNVTVSPRSESHTTTVSGGNG SVFQAGPQLQALANLEARRGSIGAALSSRDVSGLPVYAQSGEPR RLTPAQVAAPFGENALEHSSDQDTWDSLRSPGFCPLSSGGGAE SLPPGGPGHAEAGHLGKVCDFHLNHQQPSPTSVLPTEVAAPPLE KILSVDSVAVDCAVRTVPKPGPQPGPHGSLTEGCLRSLSGDLN RFP CGMEVHSGQRELESVVAVGEAMA\LKFPMGAMSYCLDRSR FLFRLPMGLSCPLQVQ
6808	2063	737	GVGSGAASALARSPLASRLSSRRRTAPRSGAMQRLAMDRLML SRELSLYLEHQVRVGFSGVGLSLILGFSVAYAFYLLSSIAKK PQLVTGGESFSRFLQDHCPVVTETTYPTVWCWEGRGQTLRLPF\ ITS KPPVQYRNELIKTADGGQISLDWFDNDNSTCYMDASTRTTI LLLPGLTGTSKESYILHMIHLSEELGYRCVFPNNRGVAGENLLT PRTYCCANTEDLETVIHHVHSLYPSAPFLAAGVSMGGMLLNLYL GKIGSKTPLMAAATFSVGWNTFACSESELEKPLNWLLFNYYLTTC LQSSVNXHRHMFVKQVDMDHVMKAKSIREFDKRTSVMFYQTI DDYYTDASPSRLKSVGIPVLCNLSVDDVFSPHALPIETAKQN PNVALVLTSYGGHIGFLEGIWPRQSTYMDRVFKQFVQAMVEHGH ELS
6809	939	65	DYSGQTPVPTEHGMTLYTPAQTHPEQPGSEASTQPIAGTQTVPQ TDEAAQTD SQPLHPSDPTKQKPKRLHVSNI PFRFRDPLRQMF GQFGKILDVEIIFNERGSKGFGFVT FETSSDADRAREKNGTIV EGRKIEVN NATARVMTNKKTG NPYTNGWKLNPVVGAVYGPEFYA VTGFPPYPTGTAVAYRGAHLRGRGRAVYNTFRAAPPPPIPTYG AVVYQDGFYGA EI\LEATQPTD TLSPLQRRQPTATVTAESTQLP TRTITPSGERRPTALEPCETFFHRLG
6810	939	65	DYSGQTPVPTEHGMTLYTPAQTHPEQPGSEASTQPIAGTQTVPQ TDEAAQTD SQPLHPSDPTKQKPKRLHVSNI PFRFRDPLRQMF GQFGKILDVEIIFNERGSKGFGFVT FETSSDADRAREKNGTIV EGRKIEVN NATARVMTNKKTG NPYTNGWKLNPVVGAVYGPEFYA VTGFPPYPTGTAVAYRGAHLRGRGRAVYNTFRAAPPPPIPTYG AVVYQDGFYGA EI\LEATQPTD TLSPLQRRQPTATVTAESTQLP TRTITPSGERRPTALEPCETFFHRLG
6811	1522	658	DLVTWVSFVDCRVIASTHGH\KSWVSVAFPDPTTSVEEGDPME FSGSDEDFQDLLHFGDRADSTQCRLSRNSTDSRPVSVTYRFG SVGQDTQLCLWDLTBDILFPHQPLSRARHTNVMNATSPAGSN GNSVTPGNSVPPPLFRSNSLPHSAVSNAGSKSSVMDGAIASGV SKFATLSLHDKRERHHEKDHKRNHSMGHISSKSSDKLNLVTCTK TDEAKTLGTPLCPRMEDVPLLEPLICKKIAHERLTVLIFLEDICI VTACQEGFICTWGRPGKVVSFNP
6812	4001	1682	EDAVFSLDLSTIIQGTWFLNGEELKSNEPEGQVEFGALRYRIEQ KGLQHRILHAVKHQDSGALVGFSCPGVQDSAAITIQESPVHIL SPQDKVSLTFTTSERVVLTCELSRVDFPATWYKDGQKVESELL VVKMDGRKHRLILPEAKVQDSGEFECRTEGVSAFFGVTVQDPPV HIVDPREHVFVHAITSECVMACEV\DR\EDAPVRWYKDGQVEVE ESDFVLENEGPHRRLLVPATQPSDGGEFQCVAGDECAFTVTI TDVSSWIVYPSGKVYVAARLERVVLTCELCRPWAEVRWTKDGE EVVESPALLLQKEDTVRRLLVPAVQLED SG EYLCEIDDESASF TVTTEPPVRIIYPRDEVTLIAVTLECVVLMCELSREDAPVRWYK DGLEVEESEALVLERDGPRLVLPAAQPEDGGEPVCDAGDDSA FFTVTVTTEPPVQFLAETTPSPLCVAPGEPVVLSCELSRAGAPV

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			VWSHNGRPVQEGEGLELHAEGRPRVLCIQAGPAHAGLYTCQSG AAPGAPSLSTFTVQVAEPPVRVVAPEAAQTRVRSTPGGDLELVVH LSGPGGPVVRWYKDGRLASQGRVQLEQAGARQVLRVQGARSGDA GEYLCDAPQDSRIFLVSVEEPLLVKLVSDLTPLTVHEGDDATFR CEVSPDADVTWLRNGAVVTPGPQRQSCCSYGGCRMCGQRKART CVSKWRQAEWVQRGFCAGCEVGSFCPTTLACPWPRMGTSTASSS MVSYPWTRAPTAAATTIAPWPGSA
6813	9	836	SSTQQRPGVFAGPRBLDGYLGVDHKLPLKMHCRDCALVTSSEHGL LHSRQGSQIDQTECVIRMDAPTRGYGRDVGNRSTSLRVIAHSSI QRILNRHDLNLSVQGTVFIFWGPSSYMRRDGKQVYNNLHLLS QVLPRLKAFMITRHKMLQFDELFKQETGQ\NRKISNTWLSTGWF TMTIALELCDRINVYGMGPPDFCRDPNHPSVPYHYEPPGPDCEC TMYLSHERGRKGGSHRFFITEKRVFKNWARTFNIHFPQPDWKPS LAINHPENKPVF
6814	3	737	KFRROEAN/ARERNRMHGLNDALDNLKRVVPCYSTQKLSKIET LRLAKNYIWALESILRIGKRPDLLTFVQNLCKGLSQPTTNLVAG CLQLNARSFLMGQGGEEAAHTRSPYSTFYPPYHSPELTTPPGHG TLDNSKSMKPYNYCSAYESFYESTSPCEASPOFEGPLSPPPINYN NGIFSLKQETLDYKKNYNYGMHYCAVPPRGPGLGGAMFRLPTD SHFPYDLHLSRQSLTMQDELNAVPHN
6815	906	553	QGLDPASQTKVVELLKDGSRRGRDRSSRDMMAGGAGPRSESDLE DVGPTAEWNGDGGSGSLRRSGSFGKLRDALRRSSEMLVKKLQGGT PQEPPNPRMKRASSLNFLNKSVEEPTQPGG
6816	1	803	NLLKTHKP\LLGQDEDSLHSEVPVQAQMGNYQEYLKTLASPLREID PDQPKRLHTFGNPFQDKKGMIDEADEFVAGPQNKVKRPGEPEN SPMSSKRRRSMSSLLLRKPQTPTVTNHVGGKGPASWFPSPYN LIKPTLVHTDATIIHDGHEEKMEGQITPDGFLSKSAPSELINM TGDLMPPNQVDSLDDFTSLSKDGLIQKPGSNAFVGGAKNCSL S VDDQKDPVASTLGAMENTLQITPAMAQGINADIKHQLMKEVRKF GRSK
6817	172	3457	LGMMDSPKIGNGLPVGPGTDIGISSLHMVGYLGNFDSAKVPS DEYCPACKEKGLKALKTYRISFQESIFLCEDLQCIYPLGSKSL NNLISPDLEECHTPHKPQKRKSLESSYKDSLLANSKTRNYIA IDGGKVLNSKHNGEVYDETSSNLPDSSGQONPIRTADSLERNEI LEADTVDMATTKDPATVDVSGTGRPSPONEGCTSKLEMPLESKC TSFPQALCVQWKNAYALCWLDCILSALVHSEELKNTVTGLCSKE ESIFWRLLTKYNQANTLLYTSQLSGVKDGCKKLTSIFABIEI CLNEVRDEIFISLQPLRCTLGDMESEPVFAFPLLKLETHIEKL FLYSFSWDFECSQCGHQYQNRHMKSLVTFTNVIPEWHPLNAAHF GPCNNCNSKSQIRKMVLEKVSPIFMLHFVEGLPQNDLQHYAFHF EGCLYQITSVIQYRANHFITWILDADGSWLECDLLKGPCSERH KKFVFPASEIHIWIERKISQVTDKEAACPLKKTNDQHALSNE KPVSLTSCSVGDAASAEASVTHPKDISVAPRTLSQDTAVTHGD HLLSGPKGLVDNIIPLTLEETIQKTASVSQNLSEAF\LENKPV AENTGILKTNLLSQESLMASVSAPCNEKLIQDQFVDISFP SQ VVNTNMQSVQLNTEDTVNTKSVNNTDATGLIQGVKSVEIEKDAQ LKQFLTPTKTEQLKPERVTSQVSNLKKKETTADSQTTSKSLQNG SLKENQKKPFVGSWVKGLISRGASFMPICVSAHNRNTITDLQPS VGVNNFGGFKTKGINQKASHVSKKARKSASKPPPI SKPPAGPP SSGTAAPHAAHASEVLEKSGSTSCGAQLNHSSYNGNGISSANH EDLVEGQIHKLRLKRLKLAEKKLAALMSSPQSRSTVRSENLE QVPDQGSNDCESEIEDLLNELPYPIDIANESACTVPGVSLYSS QTHEBILAELLSPTPVSTELSENGEGDFRYLGMGDSHIPPPVPS EFNVDVSNTHLRQDHNYSPTKKNPCVQPDSTLTNACVRTNL ESMKTDIEDEFFSSSALNALANDTLDLPHEDEYLFENY
6818	2	240	RGFDKVLWT/LSGAVK\CVQFSRISPDGEEGYPGELKVWVTTYTL

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6819	1	961	DGGE/LHS/ATTEHKP/VQATPVNLT\TILTSTWQARLPQI GIPCTEMGNFDNANVTGETIEFAIHYCFKTHSLEICIKACKNLAY GEEKKKKCNPVVKTYLLPDRSSQGRKKTGVQRNTVDPTFQETLK YQVAPAQLVTRQLQVSVWHLGTLARRVFLGEVLIPLATWDFEDS TTQSFWRHPLRAKADKYEDSVPOQNGELTVRAKLVLPSRPRKLQ EAQEGTDQPSLHGQLCLVLGAKNLPVRPDGTLNSFVKGCLTLP DQQLRLKSPVLRKQACQWKHSFVFSGVTPAQLRQSSLELTVM DQALFGMNDRLGGT\RLGSKGDTAVGGDACQSQKLQWQKVLSS PNLWTDMTLVH
6820	1014	340	GDMVYIVGHVPPGFPEKTQNAWFRGFEKYLKVVVRKHHRVIA GQFFGHHHTDSFRMLYDDAGVPIAMFITPVTWKTTLPGVNV GANNPAIRVFEYDRATLSLKMVTYFMNLSQANAQGTPRWELEY QLTEAYGVPDASAHSMHTVLDRIAGDQSTLQRYVYVNSVYSAG VCDEACSMQHVCMARQVDIDAYTTCLYASGTPVPQLPLLMAL LGLCT
6821	1088	518	EFDIYR/EVGGEFVPVTRDDSSNGFPRTQHGSPVTHPIQSPQN RFCVLTLDPETLPAIATTLIDVLFYSHSTPKEAASSSPESSIT FFAFSLIEGYI\SIUMDAETQKKFPSDLLLTSSSGELWRMVRIG GQPLGFDECGIVAQIAGPLAADISAYYISTFNFHALVPEDGI GSVIEVLQRRQEGLAS
6822	1088	518	EFDIYR/EVGGEFVPVTRDDSSNGFPRTQHGSPVTHPIQSPQN RFCVLTLDPETLPAIATTLIDVLFYSHSTPKEAASSSPESSIT FFAFSLIEGYI\SIUMDAETQKKFPSDLLLTSSSGELWRMVRIG GQPLGFDECGIVAQIAGPLAADISAYYISTFNFHALVPEDGI GSVIEVLQRRQEGLAS
6823	654	221	PPKLLSRWARMGHGDEIV\LSDLNFPGLLHLPVVGFWRSVQTAC GIPQLLEAVLKLPLDTPYVESEPAVMELVPSDKERGLQTPVWTE YESILRRAGCVRALAKIERFEFYERAKKAFVAVTGETALYGNL ILRKGVLALNPLL
6824	858	104	LLLAQRWGWG\CCFFSLAVSVKMNVLLFAPGLLFLLLTQFGFRG ALPKLGICAGLQVVLGLPFLLENPSGYLSRFDLGRQFLFWHTV NWRFLPEALFLHRAFLALLTAHLTLLLLFALCRWHRTGESILS LLRDPKSRKVPQPLTPNQIVSTLFTSNFIGICFSRSLHYQFVV WYFHTLPYLLWAMPARWLTHLLRLVLGLIELSWNTYPTSTCSS AALHICHAVILLQLWLGPQFPKSTQHSKKAH
6825	3	1173	SSGEFLQASDIMWTISDTGWILITLCSLMEPWALGACTFVHLL PKFDPLVILKTLSSYPIKSMMGAPIVYRMLLQDDLSSYKFPHLQ NCLAGGESLLPETLENWRAQTGLDIREFYGTETGLTCMVSKTM KIKPGYMGTAASCYDVQIIDDKGNVLPPTGEDDIGIRVKPIRPI GIFSGYVDNPDKTAANIRGDFWLLGDRGKDEDDGYFQFMGRADD IINSSGYRIGPSEVENALMEHPAVVETAVISSPDPVRGEVVKAF VILALQFLSHDPEQLTKELQQHVKSVTAPYKYPRKIEFVLNLPK TVTGKIQRA\KLDRKEWKMSGKAPCAVRHLRDIHLDSPLLSLSP PFGPLALEMDGYGDSLWEEHEYKFCALVISTKLYHVRC
6826	2304	954	LKTESFKPW/VNIALAFHLLGERASPNSFWQPYIQTLPREYDTP LYFEEDEVRYLQSTQAIHDVFSQYKNTARQYAFYKVIQTHPHA NKLPLKDSFTYEDYRWAVSSVMTRQNQIPTEDGSRVTALIPW DMCNHTNGLITTGYNLEDDRCCEVALQDFRAGEQIYIFYGTRSN AEFVIHSGFFFDNNSHDRVKIKLGVSKSDRLYAMKAEVLARAGI PTSSVFALHFTPEPPISAQLLAFLRVFCMTEELKEHLLGDSAI RIFTLGNSEFPVSWDNEVKLWTFLEDRASLLKTYKTIEEDKS VLKNHDSVRAKMAIKLRIGEKEILEKAVKSAAVNREYYRQOME EKAPLPKYEESNLGLLESSVGDSRLPLVLRNLEEEAGVQDALNI REAIKAKATENGLVNGENSIPNGTRSENEINQESKRAVEDAK GSSSDSTAGVKE

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6827	1	779	SSVVEFGLSVLGGLFLLFVLENMLGLLRHRLRPRCCRRKRRL ETRNLDPENGSGMALQPLQAAPEPGAQGGQREKNSQHPPALAPPG HQGHSHGQGGTDITWMVLLGDLHNLTDGLAIGAAFSDFSSG LSTTLAVFCHLPHELGDFAMLLQSGLSFRRLLLSLVSGALGL GGA/VLGVLSLGPVPLTPWVFGVTAGVFLVVALVMDLPALEPSS GAPAYA\HVLLOGLGLLLGGLMLAITLLEERLLPVTTTEG
6828	3	1654	KSQHG/WILQLMHSCKEGYVKDLKGNPGLHRAMLDLDNGTRFSE LGHLSQTSALKRGSFQSGRDDTWRYKTPHRVAFVEKLTKLVL S QLPNFWKLWISYVNGSLFSETAEKSGQIERSKNVRQRONDFKKM IQEVMHSLVXLTRGALLPLSIRDGEAKQYGGWEVKCELSGQWLA HAIQTIVRLTHESLTALEIPNDLLQTIQDLILDLRVRCVMATLQH TAEIKRLAEKEDWIVDNEGLTSLPCQFEQCIVCSLQSLKGVLE CKPGEASVFPQPKTQEEVCQLSINIMQVFIYCLEQLSTKPDADI DTTHLSVDVSSPDLFGSIHEDFSLTSEQRLLIVLSNCCYLERHT FLNIAEHFEKHNFQGIKTIQVSMASLKELDQRLFENYIELKAD PIVGSLFPGIYAGYFDWKDCLPPTGVRNLYKEALVNI IAVHAEV FTISKELVPRVLSKVIEAVSEELSRMLQCVSSFSKNGALQARLE ICALRDTVAVYLTPEKSSSFQKQALEALPQLSSGADKKLEELN KFKSSMHLQLTCFQAASSTMMKT
6829	1	782	MRMEAGEAAPAGAGGAAAGGAGGKVVRLNVGGTVLTTTROTLCR EQKSLFRLCQGEELQSDRDETGAYLIDRDPTYFGPIINFLRHG KLVLDKDMAEEGVLEAEAFYNIQPLIRI IKDRMEBKDYTVTQVP PKHVYRVLQCEEELTQMVSTMSDGRWFQELVNISSSYNGSED QAEFLCVVSKELHSTPNGLSSSESRKTKSTEEQLEEQQQBEEV EEVEVEQVQVEADAQEK/CCYKPEAPGCEAPDHLQGLGVPI
6830	1	939	MEPGSVENLSIVYRSRDFLVVNHWDVRIIDSKANRETLLTQKQL RYRFPFELADPDTCYGRFCHQDFSTSGALCVALNKAAGSAYR CFKERRVTKAYLALLRHHIQESRVTI SHAIGRNSTEGRAHTMCI EGSQCENPKPSLTDLVLEHGLYAGDPVSKVLLKPLTGRTHQL RV\HCSALGHVPVVDLT YGEVSGREDRPFMMMLHAFYLRIPTDT ECVETCTPDPFLPSLDACWSPHTLQSLDQVQALRATPDPDPE DRGPRPGSFSALLPGPGRPPPPPTKPPETEAQRGPCLQWLSEWT LEPDS
6831	3	1087	SLFFGSSTPDNKVAEQEDLETPSPSVEKAVTVIDPEGTIPTNF NVAEKPADHSLSEVKLKTADPRGTLVKSGDQNVKEKSMILSN VEDLQPKFISEVSRDYGKKEISGDSEEMNINSVTSADGENL EIQSYSLIGELVMEEAKTIVPHVTD SKRVQKPAIAPPSKWN I SIFKEEPRSDQKQKSLSDVVDKVPQPKSASSNFASKNITKE SEKPESIILPVEESKGLIDFSEDRLKKEMQNPTSLKISEETK LRSVSPTEKKDNLENR\SYTL\AEKKVLAEKQNSV\APLELRDS NEIGKTQITLGSRSSTELKESKADAMPQH FYQNE DYNERPKI IVG SEKEKDEKKK
6832	1809	412	MGSGLISGPPQDNGEALKEPERAQEHSLPNFAGGQHFFPEYLLV VSLKKKRSEDDYEP IITYQFPKRENLLRGQEEEEERLLKAIPLF CFPDGNWASLT EYPRETF SFVL TNVDGSRKIGYCRRLPAGPG PRLPKVYCI I SCIGCFGLFSKILDEVEKRHQISMAYIYPMQGL REAAFPAPGKT VTLKSP I PDSGTF F ISLTRPLDSHLEHVD FSSL LHCLSF EQILQIFASAVLERK IIFLAEGLSLTSQCIHAAAALLY PFSWAHTYIPVVPESLLATVCCPTPFMVGVQMR FQGEVMDSPME EVLLVNLCEGTFLMSVGEDEKILPPKLQDDILDLSLQGINELKT AEQINEHVSGFPVQFFVKIVGHYASYIKREANGQGHFOERSFCK ALTSKTNRRFVKKFVKTLQLSLFIQAEKSKNPAGYFOOKILE YBEQKKQ/TETKGKNCETRAVVNKN
6833	1	1129	PLMTLSQCGGIPGHGSHGCHGHLPGKPRVKSTRPGSSDIN VAPGEQGPQDEETNTLVANTSNSGLKLDPADPENPRSGDTVEV QVNGNLVREPDMHELEDRAQQLNMRGVFLHVLGDALGSVIVVV

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			NALVFFYSWKGCEGDFCVNPFDPCKAFVEIINSTHASVVEA GPCNVLYLDPTLCVVMVCILLYTTYPLLKESALILLQTVPKQID IRNLIKELRNVEGVVEVHELHVWQLAGSRRIATAHIKCEDPTSY MEVAKTIKDVFNHGHATTIQEPASVSGSKSSVVPCELACRTQ CALKQCCGTLPOAPSGKDAEKTPAVISISCELSNNLEKKPRRTK AENIPA\VVIEIKN\IPNK\QPESL
6834	78	1151	AGQERPAPIWRLWLPTPSVSRKAEPAHIPINR*GA*E*RGGLP LCGSSASAYGWH*RLTPWSPGGS*HM*SSKAPVTOAREVLVAGP CSKLVLSGARGIVGTTVQVLVEAQPLLFTGVWGLNLRAGEE SRAL*LIBEVTQVRDAHLGNAVVGCAQLSQGVGSALAKALLE AAAARDCKEVLTVSGDKQAEVSVRL*VRDVCVEEAGCVEFGQ AHGRPGLALAKGRGGTNEVEEQVQVDGVQKLVSACHELHVAG QQDGEDQAARTRLQAGAHVAHGRRQQAQPCRPHEAGVSCHE LQQVVDAL*ARE*APQIIVLLLEDVAQLRTGKKA*DLVVDVE QLRLQL
6835	1	834	GIPAAADR\EASLELIKLDYSRTFPNLCIFQGGPYHDMHLSILG AYTCYRPDVGIVQGMSEFAAVLILNLDTADAFIAPNLLNKPCQ MAFFRVDHGLMLTYFAAFVFFPEENLPKLPAHFKNLTPDIYL IDWIFTLYSKSLPLDLACRIWDVFCRDGEBFLFRTALGILKLFE DILTMDFIHMAQFILRLPEDLPAEELFASIIATIQMSRNKKWA QVLTALQKDSREMRGKSVPTLRLQREFALGTNQSPMPRLCC FRLTPGQPRRTDAL
6836	1	850	MSCGRPPPDVDMITLKV\DNLTyrTSPDLSRRVFEKYGRVGDV YIPREBHTKAPRGFAFVRFHRRDAQDAEAMDGAEIDGRELRV QVARYGRRDLPRSRQGRRAAGPEAA/RYGRRSRSGRRSRSPR RRHRSRSGPSCSRSRSRSGRSGRSGRSGRSGRSGRSGRSGR PYSRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGR SRASSTSKSSARRSKSSSVSRSGRSGRSGRSGRSGRSGRSGR KSRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGRSGR
6837	1	1369	TDGAAVAGNPGSDYFFPGGTAP/GGPRTRRP\SGTSSSGSKASGP PNPFAQGGDTSLSPNYTLESTSGNDGKPVSGGGGRGRGRKRDS GHVSPGTFFDKYSAAPDSGGAGVSPGQQQASGAAGVSSAGET RGAPTPHEKALTSPSWGKGAELLLGDQPDIGSLDGGAKSDSS PNVGEFASDEVSTSYANEDEVSSSDNPQALVKASRPLVTGSP KLPPRGVGAHEGPKAPPPALGLGIMSNSTSTPDSYGGGGPGH PGTPGLEQVVRTPTSSSGAPPDEIHPLEILQAQIQLRQQFSIS EDQPLGLKGGKGECAVGASGAQNGDSELGSCCSEAVKSAMSTI DLDSLMAEHSAAWMPADKALVDSADDDKTLAPWEKAKPQNPNS KEAHDLPANKASASQPGSHLQCLSVHCTDDVGDARASVPTWR SLHSDISNRFGTFAALT
6838	16	499	LTDTPPPKTHMIHHSISDYKATLRCWALGFYPMETLTWQDDEE DQTRDMELVETRPAGDGTQKWAAVVPSGEE/Q/RYMCHVQHE GLEPELTLRWQSSQPTIPIVGIVAGLVLLGAVVTGAVVSAMVC RKQNSDRVSYSEASSDHAQGSVDVSLTACKV
6839	1	1195	AAFAGGGPDPEALSAPFGRHLSGLSWPQVKRLDALLSEPIPIHG RGNFPPTLSVQPRQIRAGGPQHPGGAG\IHHVRVRLHGSAAHVL HPESGLGYKDLDLVFRMDLRSEASFQLTAVVLACLLDFLPAGV SRAKITPLTLKEAYVQKLKVCCTDSRWSLISLSNKGKKNVELK FVDSVRRQFEFSIDSFQIILDSLLLFQCCSTPMSEAFHPTVTG ESLYGDFTEALEHLRHRVIATRSPEEIRGGGLLKYCHLLVRGFR PRPSTDVRLQRYMCSRFFIDFPLVEQRRTLERYLEAHFPGAD AARYACLVTLHRVNESTVCLMNHERRQTLDLAALALQALAE QGPAATAALAWRPPGTGVPVATVNYVYVTPVQPLLAHAYPTWLP CN
6840	4254	2061	ELQGDFFSVDPVPSMAWCENSTCVGFKRDYILIRVDGKGSIKEL FPTGKQLEPLVAPLADGKVAVGQDDLTVVNLNEEGICTQKCALNW

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			<p>TDIPVAMEHQPPYITAVLPYVEIRTFEPRLVQSTIELQRPFI</p> <p>TSGGSNIIYVASNHFVWRLIPVPMATQIQQLQDQKQFELALQLA</p> <p>EMKDDSDSEKQQQIHIIKNLYAFNLFCQKRFDESMQVFAKLQTD</p> <p>PTHVMGLYPDLLPTDYRKQLQYPNPLPVLSGAELEKAHLALIDY</p> <p>LTQKRSQVLKLNDSHQSSSTPLMEGTPTIKSKKLLQIIDTT</p> <p>LLKCYLHTNVALVAPLLRLNNHCHIEESEHVLKKAHKYSELI</p> <p>LYEKKGLHEKALQVLVDQSKKANSPLKGHERTVQYLQHLGTENL</p> <p>HLIFSYSVWVLRDFPEDGLKIFTEDLPEVESLPDRVLGFLIEN</p> <p>FKGLAIPYLEHIHVWEETGSRPHNCLIQLYCSKVQGLMKEYLL</p> <p>SFPAGKTVPVAGEEELGEYRQKLLMFLEISSYDPRGLICDF</p> <p>PFDGLLEERALLGRMGKHEQALFIYVHILKDTMAEEYCHKHY</p> <p>DRNKDGNKDVYLSLLRMYLSPPSIHCLGPIKLELLEPKANLQAA</p> <p>LQVLELHHSKLDTTKALNLLPANTQINDIRIFLEKVLREENAKK</p> <p>RFNQVLKNLLHAEFLRV\QEERILHQVKCIITEEKVCMVCKKK</p> <p>IGNSAFARYPNGVVVHYFCS\KEVNPADT</p>
6841	1	3206	<p>TPSTTGKSNTPFTSSVPSAAVTPLNESLQPLGDYGVGSKNSKRA</p> <p>REKDRSRNMEVQVTQEMRNVSIGMGSSDEWSDVDIIDSPELD</p> <p>MCPETRLDRGTGSSPTQGI VNKAPGINTDSLVELSTAGSEVIGD</p> <p>VDEGADLLGEFSGMGKEVGNLLLENSQLLETKNALNVVKNDLIA</p> <p>KVDQLSGGEQVLRGELEAAKQAKVKLENRIKELEELKRVKSEA</p> <p>IIAREPKEEAEDVSSYLCTESDKIPMAQRRRFRVEMARVLM</p> <p>RNQYKERLMELQEA VRWTEMIRASREHPSVQEKKSTINQFFSR</p> <p>LFSSSSSPPAKRPYPGNIHYKSPTTAGFSQRRNHAMCPI SAG</p> <p>SRPLEFFPDDCTSSARREQKREYRQVREHVRNDGRLQACGW</p> <p>SLPAKYKQLSPNGGQEDTRMKNPVPVYCRPLVEKDPTMKLWCA</p> <p>AGVNLSGWRPNEDDAGNGVKPAPGRDPLTCDREGDGEPKSAHTS</p> <p>PEKKKAKELPEMDATSSRVWILTSTLTTSKVVIIDANQPGTVVD</p> <p>QFTVCNAHVLCISSIPAASDSYPPGEMFLDSDVNPEDPGADGV</p> <p>LAGITLVGCATRCNVPRSNCSRGDTPVLDKGQGEVATIANGKV</p> <p>NPSQSTEATEATEVDPDPGSEPETATLRPGPLTEHVFTDPAPT</p> <p>PSSGQPGSGENGPEPDSSTRPEPEPSGDPTGAGSSAAPTMLWG</p> <p>AQNGWLYVHSAVANWKKCLHSIKLKDVSLSLVHVKGRVLVALAD</p> <p>GTLAIFHRGEDGQWDLSNYHLMDLGHPHHSIRCMAVVDRVWCG</p> <p>YKNKVHVIQPKTMQIEKSFDAHPRESQVRQLAWIGDVVWVSTR</p> <p>LDSTRLRYHAHTHQHLQDVIDEYVSKMLGTGKLGFSFVRITAL</p> <p>LVAGSRLWVGTVGNVVISIPLTETVVLHRGQ\LLG\LRANKTSP</p> <p>TSGEQ\ARPGG\IHVYG\DDSSDRAARSFIPYCSMAQAQLCFH</p> <p>GHRDAVKFFVSVPGNVLATLNGSVLDSPAEGGPAAPASEVEGQ</p> <p>KLRNVLVLSGGEGYIDFRIGDGEDDETEGAGDMSQVKFVLSKA</p> <p>ERSHIIWQVSYTPE</p>
6842	3	926	<p>RCQQLSATILTQHVLERTPLCAILKQKAPQQYRIRAKLRSYKP</p> <p>RRLFQSVKLHCPKCHLLQEVPHGEDLDIIFQDGATKTPDVKLQ</p> <p>TSLYDSKIWTTKNQGRKVAHVFKNNGILPLSNECLLLIEGGT</p> <p>LSEICKLSNKFNSVIPVRSGHEDLELLDLSAPFLIQGTVVHYGC</p> <p>KQWST*RSIQNLNSLVDKTSWIPSSVAEALGIVPLQYVFMFTT</p> <p>LDDGTGVLEAYLMDSDKFFQIPASEVLMDDDLQKSVDMIMDMFC</p> <p>PPGIKIDAYPWLECFIKSYNVNTNGTDNQICYQIFDITVAEDVI</p>
6843	2	851	<p>NHRKVLGAKRYECNECGKSFAYTSSLIKRRRIHTGERPYECSE</p> <p>CGRSFAENSSLIKHLRVHTGERPYECVECGKSFRSSSLQHQ</p> <p>VHTRERPYECSECGKSFSLRSLNIHQVRHTGERHECGQCGKSF</p> <p>SRKSSLIHLRVHTGERPYECSDCGKSFENSSSIKHLRVHTGE</p> <p>RPYECIDCGKSFRRSSSRHRQRVHTGMRPYK*SKFWKFCPCGF</p> <p>LLLQGRVHTGSRCEYCDKWGIFFS*NASFFT*KSAPTEEVFFE</p> <p>CNECEKAFSPLSLVTITFT</p>
6844	244	642	<p>BHQLAGFELRKTQTSMSLGTREKTRDKVSTAYLSPOLEDVVFY</p> <p>QYDVKSEIYSFGIVLWEIATGDI PFQGCNSEKIRKLVAVKRQGE</p>

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			PLGEDCPSELREIIDECEAHDFSVRPSVDEILKKLSTFSK*CIK I
6845	3	1519	VAVRDECYWRHVFWDQDLNMLLFILMCHPETARARLEYRIRTLG GALENAQNLYGQGAFAWESADSGLEVCPEDYGVQEVHVNAGV GLAFELYHTTQDLQLFREAGGWDVVRVAEFWCSRVSPPREE KYHLRGVMSPDYHSGVNNNSVYTNVLVQNSLRFAAALAQDLGLP IPSQWLAVADKIKVPFDVEQNFHPEFDGYEPGEVVKQADVLLG YVPFSLSPDVRKNLEIYEAVTSPQGPAMTWSMFVAGWMELKD AVRARGLLDRSFANMAEPFKVWTENADGSGAVNFLTGMGGFLQA VVFCTGFRVTRAGVTFDPVCLSGISRVSVSGIFYQGNKLNFSF SEDSVTVEVTARAGPWAPHLAEALWPSQSRSLPLPGHKVSPFRS AGRIQMSPPKLPGSSSSSEFPGRFTFSDVRDPLQSPWVTLGSSSP TESLTVDPASE*SGTGASETSLGPSLWRLHPPLGLTLLACHPS PAARLSGKVHAAWPEFKAFCL
6846	213	1258	LYFLKTIK*LNRLAEHP*YENEXLTKLRNTIMEQYTRTESARG IIFTKTRQSAYALSQWITENEKFAEVGVKAHHLIGAGHSSEFKP MTQNEQKEVISKFRGTGKINLLIATTVAEGLDIKECNIVIRYGL VTNEIAMVQARGRAREDESTYVLVAHSGSGVIEHETVNDPREKM MYKAHCVQNMKPEEYAHKILELQMQSIMEKKMKTKRNIKHYK NNPSLITFLCKNCVSLACSGEDIHVIEKMHVNMTPFEKELYIV RENKTLQKKCADYQINGEIIICKCGQANGTMMVHKGLDLPCLKIR NFVVVFKNNSTKKQYKKWLELITFPNLDYSECCLFSDSD
6847	1450	348	SMCWNSDRLEMPILIDLALILYPPSYVPTGHLSDDSLRSKYCLT WFEDALNGVL*RAEAIQPHCVNAGDRMEKFRQKYWNKLOTLRQ PFAYGTLTVRSLLDTREHCLNEFNFPDPYSKVQKRENGVALRCF PGVVRSLDALGWEERQALVKGGLLAGNVFDWGAKAVASAVLESDD YFGFEAKRKLQERPWLVDSYSEWLQRLKGPFFKCALIFADNSG IDIIIGVFPFVRELLLRGTEVILACNSGPAINDVTHSESLIVAE RIAGMDPVVHSALEERELLVQTGSSSPCLDLSRLDKGLAALVR ERGADLVVIEGMGRAVHTNYHAALRCESLKLAVIKNAWLAERLG GRLFVIFKYEVPPE
6848	19	16	AMWNSLDGIRNIVLSNPKKRNLTSLAMLKSLQSDILHDADSND LKVI IISAEQPVFSSGHDLKELEEQGRDVAEVFQTCSEVMH IRNHPVPVIAVNGLATAGCQLVASCDIAVASDKSSFATPGVN VGLFCSTPGVALARAVPRKVALEMLFTGEPISAQEAALLHGLLNK VPEAEALQEETMRIARKIASLSRPVVS LGKATFYKQLPQDLGTA YYLTSQAMVDNLALRDGQEGITAFLOKRPVWSHEPV*VEH
6849	70	821	SLGVDGSCLEQGSFAPRPQTDTSF*PVGNNWATQEDLYHQSYEC VCVLFAFSPDFKEFYSESNINHEGLECLRLNEI IADFDLLESK PKPSGVEKIKTIGSTYMAATGLNATSGQDAQDAERSCSHLGTM VEFAVALGSKLDVINKHSFNNFRLRVGLNHGPFVAGVIGAKPKQ YDIWGNVTNVASRMESTGVLGKIQVTEETAWALQSLGYTCSRG VIKVGKGLCTYFLNTDLTRTGPPSATLG
6850	2	1235	ARGLNHEWTFEKLQHSIRNAQDKQLHLFMLSGVPDAVFDLTD LDVLKLELIPEAKIPAKISQMTNLQELHLCHCPAKVEQTAFSFL RDHLRCLHVKFTDVAEIPAWVYLLKNLRELYLIGNLSENKMI GLESRLRELRLHLKILHVKSNTKVPNSITDVAPHLTKLVHNDGT KLLVLNSLKKMMNVAELELQNCLELRI PHAIFSLSNLQELDLKS NNIRTIEEIIISFQHLKRLTCLKLWHNKIVTIPPSITHVKNLESL YFSNNKLESPLVAVFSLQKLRLCLDVSYNNISMIPIEIGLLQNLQ HLHITGNKVDILPKQLFKCIKLRTNLGQNCITSLPEKVGQLSQ LTQLELKGNCCLDRPQAQLGQCRMLKSGLVVEDHLFDLTPLEVK EALNQDINIPFANGI
6851	1765	660	VSAQVSAREGENCLGWNADSSQESYKSLLEEADCYPPSLLTLD LRDLFNQVEQGFLLSCPKAGTDLMSGRAREVGVMAAGLMIGAGA CYCVYKLTIGRDDSEKLEEGEEEDDDQELDEEEDPIWDFET

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			MARPWTEGDGWTPEGAPGGTDRPSGGGKANRAHPKIQRPFPFYEHKNTWSAQNCCKNGSCVLDLSKCLFIQGLLFAEPKDAFGFPFSQDINSHLASLSMARNTSPTPDPTVREALCAPDNLNASIESQGGIKMYINEVCRETVSRCNSFLQQAAGLNLISMTVINNMLAKSASDLKFPLISEGSGCAKVQVLKPLMGLSEKPVLAGELVGAQMLFSPMSLFIRNGNREILLETPAP
6852	1	407	RTRGEEYANFIKHNDGKNIFYAARTPATLFAVMFAMYIISGLTGFIGLNSIAVLCNLVMGLALIFLCTWAYVKYSGEFREIGTVIDQIAETLWEQVLKPLGDNLMENIRQSVTNSIKAGLTDQVSHHARKTD
6853	3	469	GDSCAVCIELYKPNLVRILTCHNIFHKTCVDPWLLHRTCPMC KCDILKALGIEVDVEDGVSLSQVPVSNEIFNSASSHEEDNRSETASSGYASVQGTYPPELEHVQSTNESLQLVNHEANSVAVDVIPHVDNPTFEEDETPNQETAVERIKS
6854	1148	585	HESYIGTFDPGELCVCAAIQWLQDNSASYFLNRKLVYEPSTQAKPVKNTFLRMWYISHHIYQQDLRKKILDVGKRLDVTGFCMTGKPGIICVEGFKHECBFWHTIRYPNWKHISCKHAESVETEGNGEDLRLFHSFEELLLEAHGDYGLRNDYHMLNGQFLFLKHKHSEHFQILFGIESKSSDS
6855	1913	1148	GRVGGVGRICSPLSGANEYIASTDTLKTEEVLLFTDQTDLLAKEPTSLFQDSETKGESGLVLEGDKEIHQIFEDLDKKLALASRFYIPEGCIQRWAAEMVVALDALHREGIVCRDLNPNNILLNDRGHIQLTYFSRWSEVEDSCSDAIERMYCAPEVGAITEETEACDWNWSLGAVLFELLTGKTLVECHPAGINTHTTLNMPWVSEARSLLIQOLLQFNPLERLGGAGVAGVEDIKSHPFPTPDVDAELMR
6856	1617	997	VTQLYVSVDASTKDSLKKIDRPLFKDFWQQLDSLKALAVKQORTVYRLTLVKAWNVDLQAXAQLVSLGNPDFIEVKGVTYCGESSASSLTMAHVWHEEVVQFVRELVDLIPYEYIACEHEHSNCLLIAHRKFKIGGEWWTWINYRPFQELIQEYEDSGGSKTFSKDYMARTPHWALFGASERGFDPKDRHQRKNKSKAISGC
6857	1	617	KGPEATAMVCVCSHPNCRQNHKPSHSAQWTCGSPTPASAPNHLKNAMEQGGKTLPSATEDAKEEGLEAQISRLELIGRLESKALWDLQQLRSDDEGTNMHLQVLRQEMAVCPEQLSEFLDSLRLQYLRGTRGVNRCFHITAVRLSDGFTFVIYEFWETEEAWKRLQSPICKAFRHVKVDTLQSPEALSRLVPAWCTVGRD
6858	2	669	RSRGIKDFENDPPLSSCGIFQSRIAGDALDLSGIRISSVFASPALRCVQTAKLILEELKLEKKIKIRVBPGEFENTKWEAGKTTPTLMSLEELKEANFNIDTDYRPAFPLSALMPAESYQEYMDRCTASMVQIVNTCPQDTGVILIVSHGSTLSDCTRPLLGLPPRECGDFAQLVRKIPSLGMCFCENKEEGKWELVNPVKTLTHCANAAFNWRNWNISGN
6859	1	1150	GETMPKKAKTKAKKKPRKRSDDSGGYNLSDIIQSPSSSTGLLKSGKINSVESLPELLTSDSEGSYAGVGSFRDLQSPDFTTGFSHDKIEAKVKPYVNGTSPVYSREDLKPEWKSPIKISAPQPIPSNRIDTSSASWVAGSFSPVSPVVDLRTIMEIEESRQKCGATPKSHLGTVSHGVKLSQKQKRMIALTTKENSGMNSMETVLFPSKAPKPVNAWASSLSHVSSKSRFDLLEEKSVTSHSSGDHVKKVSFKGIENSQAPKIVRCSTHGTGPEGNHISDLPLDSPNPWLSSSVTAPSMVAPVTFASIVBEELQQAALIRSREKPLALIQIEHAIQDLLVLYEAFGNPEEFVIVERTPOGPLAVPMWNKHGC
6860	1889	1515	DKDKKRQKKRGIFPKVATNIMRAWLFQHLTHPYPSSEQKKQLAQDTGLTILQVNNWFINARRIIVQPMIDQSNRAVSQGAAYSPEGQPMGSFVLGQQHMGIRPAGPMSGMGMMDGQWHYM
6861	1889	1515	DKDKKRQKKRGIFPKVATNIMRAWLFQHLTHPYPSSEQKKQLAQDTGLTILQVNNWFINARRIIVQPMIDQSNRAVSQGAAYSPEGQPMGSFVLGQQHMGIRPAGPMSGMGMMDGQWHYM

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6862	2	471	<p>MGSFVLGGQHHMGIKAPGPMGSGMNMGMDCQWHYM</p> <p>BEIDREFHNLKLEKLEKQEPVNGEDKGDGSDVTQNSEGNA</p> <p>DEEDPLGPNCYDKTKSFDDNISCDNRERRPTWAEERRLNAET</p> <p>FGIPLRPNRRGGYRGRGGLGFRGGRGGGGGGTPTAPRGFRG</p> <p>GFRGGRGREFADFEYRKTATFGP</p>
6863	2216	487	<p>PQEPALKSEFSQVANSNTIPLPLPQPNCTCKDNGPCKQVCSTVGGG</p> <p>ALCSFPGYAIMADGVSCEDQDECLMGAHDCSRRQFCVNTLGSGF</p> <p>YCVNHTVLCADGYILNAHRKCVDINECVTDLHTCSRGEHCVNTL</p> <p>GSFHCYKALTCEPGYALKDGECEVDCEAMGTHTCQPGFLCONT</p> <p>KGSFYCQARQRCMDGFLQDPEGNCVDINECTSLSEPCRPGFSCI</p> <p>NTVGSYTCQRNPLICARGYHASDDGTCKVDVNECTGVHRCGEG</p> <p>QVCHNLPGSYRCDCKAGFORDAFGRGCDVNECWASPGRLCQHT</p> <p>CENTLGSYRCSASCGLLAADGKRCEDVNECEAQRCSQECANIY</p> <p>GSYQCYCRQGYQLAEDGHTCTDIDECAQAGILCTFRCLNVPGS</p> <p>YQCACPEQGYTMTANGRSCKDVDECALGTHNCSEATCHNIQGS</p> <p>FRCLRFECPPNYVQVSKTKCERTTCHDFLECQNSPARITHYQLN</p> <p>FQTGLLVPAHIFRIGPAPAFGTDTIALNIKGNEEGYFGTRRLN</p> <p>AYTGVVYLQRAVLEPRDFALDVEMLWRQGSVTTFLAKMHIFT</p> <p>TFAL</p>
6864	2	2933	<p>LADSSPSNLQITIKELLSMHHPDPAITKEFDYLPVDSRSSSG</p> <p>FVGLRNGGATCYMNAVFOQLYMQPLPESLLSVDDTDNDPDDSV</p> <p>FYQVQSLFGLHMSKLYVYPENFWKIFKMNKELYVREQQDAY</p> <p>EFFTSLIDQMDLYLKKMGRDQIFKNTFGGIYSQDKICKDCPHRY</p> <p>EREEAFMALNLGVTSCQSLEISLDQFVRGEVLEGSNAYYCEKCK</p> <p>EKRITVKTCTIKSLPSVLVIHLMRFGEFDWESGRSICYDEQIRFP</p> <p>WMLNMEPYTVSGMARQSSSEVGENGRSVDQGGGSPRKKVALT</p> <p>ENYELVGVIVHSGQAHAGHYYSFIKDRRGCGKWKYKFNDDTVE</p> <p>EFDLNDETELEYECFGGEYRPKVYDQTNPNYTDVRRRYWNAIMLFY</p> <p>QRVSDQNSPVLPKKSRVSVVRQEAEDLSLSAPSSPEISPSQSSPR</p> <p>PHRPNNDRLSILTKLVKKGKGLFVEKMPARIYQMVDRDENLKF</p> <p>MKNRDVYSSDYFSFVLSLASLNATKLKHPYPCMAKVSLLQAIQ</p> <p>FLFQTYLRTKKLRVDTEEWIATIEALLSKSPDACQWLVEYFIS</p> <p>SEGRELIKIFLLECNVREVRVAVATILEKTLDLSALFYQDKLKS</p> <p>HQLLEVLLALLDKDVPENCKNCAQYFFLNTFVQKQGIKAGDLL</p> <p>LRHSALRHMISFLLGASRQNNQIRRWSSAQAREFGNLHNTVALL</p> <p>VLHSDVSSQRNVAPGIFKQRPPIISAPSSPLLPLHEVEEALLFM</p> <p>SECKPYLLEVMPALRELTGSLALLIEMVVYCCFNEHFSFTMLH</p> <p>FIKNQLETAAPPHELKNTFQLLHEILVIEDPIQVERVKFVFETEN</p> <p>GLLALMHHSNHVDSSRCYQCVKFLVTLAQKCPAAKEYFKENSHH</p> <p>WSWAVQWLQKMSSEHYWTLQSNVSNSTSTGKTFQRTISAQDTLA</p> <p>YATALLNEKEQSGSSNGSESSPANENGDRHLQGSSESPMMIGEL</p> <p>RSDDLDDVD</p>
6865	1820	1242	<p>DPERWKHLSKVTPPGSSSVSTTPVQVRLQSPQSQSQSMMPSCNRS</p> <p>CSCSRGPSVEDGKWKYGVRSYLHLFVEGYAVPPKLEIGEGEFLV</p> <p>LDQRAADYNQALGTCRLAGTALCVAAGVLLAICLFWAMIGWLSQ</p> <p>DTKAEPLDPEADSHVEVFGDEPEQQLSPIFRNAGSQSWFSPFAS</p> <p>FFGQSSVQTIQPKRDS</p>
6866	1571	495	<p>DCPRPRYTLYGLRATCMRDLDWAWINAVSAFKALEQDLFPVNIKF</p> <p>IEGMEEEAGSVALEELVEKEKDRFSGVDYIVISDNLWISQKRP</p> <p>AITYGTGRNSYFMVEVKCRDQDFHSGTFGGIILHEPMADLVALLG</p> <p>SLVDSSGHILVPGIYDEVVPLTEEBINTYKAIHLDLEBYRNSSR</p> <p>VEKFLFDTKKEILMHLWRYPSSLHIGIEGAFDEPGTKTVIPGRV</p> <p>IGKFSIRLVPHMNVSAVEKQVTRHLEDVFSKRNSNKNMVSMTL</p> <p>GLHPWIANIDDTQYLAAKRAIRTVFGTEPDMIRDGSTIPIAKMF</p> <p>QELVHKSVVLLIPLGAVDDGEHSQNEKINRWNYIEGTLKFAAFPL</p> <p>EMAQLH</p>

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6867	2833	1704	GTRIMSQQPKQKELAGFVRQKMLLDYSVVMGRCPVQESRSPQSRSP LQSAESSPTAGKKLPEVPPSEEEEEQEAOWNALLGRIFWDFLGEK YWSDLVSKKIQMKLSKIKLPYFMNELTLELDMGVAVPKILQAF KPYVDHQGLWIDLEMSYNGSFLMTLETKMNLTKLGKEPLVLEALK VGEIGKEGCRPRAFCLADSDEESSAGSSEEDDAPEPSGGDKQL LPGAEGYVGGHRTSKIMRFVDKITKSKYFQKATETEFIKKKIEE VSNTPLLLTVEVQECRGTLAVNIPPPPTDRVWYGFRKPPHVELK ARPKLGEREVTLVHVTDWIEKKLEQEFQKVFMVPMNMDVYITIM HSAMDFRSTSCLLKDPFVEAADQP
6868	1	346	RTPRPTRPEEIKNLILPYISDMNFVQDLCEDFYELFKTDKGF KATFESQMSVMRGQILNLTQALRDGKSPFQLVQIPCVIVERSQG GSQGRIVHLSNSFTQTVNCRKPFSSW
6869	3	1619	MYMERMDKRALISFWESVEHLKNANKNEIPQLVGEIYQNFVFS KEISVEKSLYKEIQOCLVGNKGIEVFYKIQEDVYETLKDRYYP FIVSDLYEKLKIEEKHASQMISNKDEMGRDEAGEEAVDGOT NQINEQASFAVNKLRELNEKLEYKRQALNSIQNAKPKDKKIVSK LKDEIILIEKERTDLQHMARTDWCENLGMWKASITSGEVTEE NGEQLPCYFVMVSLQEVGGVETKNWTVPKRLSEFHNHRLKSEC VPSLKKDQLPSLSKLPFKSIDHTFMEKFNQNLKFLQNLSDER LCQSEALYAPLSPSPDYLVKVIDVQGGKNSFSLSSFLERLPRDF SHQEEETEEDSDLSYDGDVDVGRKDALAEPFMLIGEIFELRGM FKWVRRTLIALVQVTFGRTINKQIRDTVSNIFSEQMLVYINIF RDAFWPNGKLAPPTTIRSKEQSQETKQRAQQKLENIPDMLQSL VGQONARHGIIKIFNALQETRANKHLLYALMELLIELCEPLRV HLDQLKAGQV
6870	1	1566	MAAVVAATRWQLLLVLSAAGMGASGAPQPPNILLMLDDMGWG DLGVYGEPSRETPNLDRMAAEGLLFPNFYSANFLCSPSRAALLT GRLPIRNGFYTTNAHARNAYTPQEI VGGIPDSQQLPELLKKAG YVSKIVGKWHLGHPRPQFHLPHKGFDWFGSPNCHFGPYDNKARP NIPVYRDWEMVGRYEEFFINLKTGEANLQIYLQEALEDFIKRO ARHHPFFLYWAVDATHAPVYASKPFLGTSQGRGYGDAVREIDDS IGKILELQDLHVADNTFVFFTSNDAALISAPEQGGSGNGPFLC GKQTTFEGGMREPALAWWPGHVTAQVSHQLGSDMDLFTSLAL AGLTPPSDRAIDGLNLLPTLLQGRMLDRPIFYRGDTLMAATLG QHKAFWFTWINSWENFROGIDFCPGQNVSGVTTNLEDHTKLPL IFHLGRDPGERFPLSFASAEYQEALESRTSVVQQHQEALVPAQP QLNVCNVAWMWAPPGCCCKLGKCLTPPESIPKKCLWSH
6871	209	1126	RMSLNPPIFLKRSEENSSKFFVETKQSQTTIASDPLQNLCLAS QEVQLQKAQSGRSKCLKCGSRMFYCYTCYVVENVPBQIPLV KLPLKIDI IKHPNETDCKSTAIHAKLLAPEFVNIYTYPCIPYE EKDHEVALIPGPQSSISKDISFHLQKRIQNNVRGKNDDPKPS FKRKRTTEEQEFCDLNDKCKGTTLKKIIFIDSTWNQTNKIFTDE RLQGLLQVELKTRKTCFWRHQKGPDTFLSTIEAIYYFLVDYHT DILKEYRGQYDNLLFFYSFMYQLIKNAKCSGDKETGKLTHT
6872	880	459	FGLLMVLSLIFMKGNCVREDLIFNFKLGLDVRETNGLFNT KKLITEFVVRQKYLEVRRIPYTEPAEYEFWGPRAFLKSKMLV LRFLAKLHKDFQSWPFHYLEALACEWEDTDEDEPDGDSAHG PISRPPPR
6873	1929	955	DEQAVLCSKDKTYDLKIADTSNMLLFI PGCKTPDQLKKEDSHCN I IHTEIFGFSNNYWELERRRFPKLKLLKLLMENPYEGPDSQKEK DSNSSKYTTEDLLDQIQASEEIMTQLQVLNACKIGGYWRILEF DYEMKLLNHVTQLVDSESWFSGKVLNTCLQELGPLEPEEMIEH CLKCYGKKYVDEGEVYFELDADKICRAARMLLQNAVKNLAEF QEVWQQSVPEGMVTSLDQLKGLALVDRHSRPEIIFLLKVVDDLPE DNQERFNSLSFLREKWEEDIAPYIQDLCEKQRTIGALLTKYSH SSMQNGVKVYNSRRPIS

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6874	1	307	DSIADHVNSAAVNVEEGTKNLGKAAKYKLAALPVAGALIGGMVG GPIGLLAGFKVAGIAAALGGGVLTGFTGGKLIQRKKQKMMKELTS SCPDLPSTQDKKCS
6875	1688	349	VIGTGERGNSASEKWEIMFNEELGDPFIIHHSISLLNAEEHSIA TLLLRIEKEELDMKSGSFVVSLEWVTISKKNQDNKKYEIIKRDI LRGKSVPHYAAIEPDGNGLMIVSYKSLTFVQAGQDLEENMDEDI SEKIKEPLYWQQTEDDLTVTIRLPEDNTKEDIQIQFLPDHINI VLKDHQFLEGKLYSSIDHESSTWIIKESNSLEISLIKKNRGLTW PELVIGDKQGELIRDSAQCAIAERLMHLSSEELNPNPDKEKPP CNAQLEECDIFFEESSLCRPDGNTLKTTHVVNLGSNQYLFVS IVDPKEMPCFCLRHVDVALLWQPHSSKQDDMWEHATFNLGYV QASKRDKKFFACAPNYSYAALCECLRRVFIYRQPAPMSTVLYNR KEGRQVGVAKQVQVASELTNDPILGFPQATNBLFVLTTKNLFLLI KVNTEN
6876	41	1285	VGEMTLIWRHLLRPLCLVTSAPRILEMHPFLSLGTSRTSVTKLS LHTKPRMPPCDFMPEYQVIFLVNSGSEANELAMLMARAHNNI DIISFRGAYHGCSPYTLGLTNVGIYKMLPGGTGCOPTMCPDVF RGPWGGSHCRDSPVQTIKRCSCAPDCCQAKQYIEQFKDITLST VAKSIAGFFAEPIQGVNGVVQYKGFLEAFELVRARGGVCIAN EVQTFGRGLGSHFWGFTQHDVLPDITVMAGIGNGFFMAAVITT PEIAKSLAKCLQHFNFTFGGNPMACAIGSAVLEVIKEENLQENSQ EVGYMLLKFAKLRLDEFIIVGDVRGKGLMIGIEMVQDKISCRPL PREEVNQIHEDCKHMLLVGRGSIFSQTFRAPSMCITKPEVDF AVEVFRSALTQHMERRAK
6877	1	778	GTSPSPARAYAPPTERKRFYQNVSIQEGEGFEINLDRKLKTP QAKLFTVPSEALAIAVATEWDSQODTIKYITMHLTTLCNTSLDN PTQRNKDQLIRAAVKFLDITDIYRVEEPETLVELQRNEWDPII EWAEEKRYGVEISSSTISMGPSIPAKTREVLSHLASYNWALQG IEFVAAQLKSMVLTGLIDLRLTVEQAVLLSRLEEEYQIQKWGN IEWAHDYELQELRLARTAGTLFIHLCESTTVKHKLLKE
6878	931	263	QTLQGDFFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQON LEEDTVTLEVLVAPVPSCEVPSSALSGTVVELRQDKKEGNPAP EYTWFKDGIRLLENPRLSQSTNSSYTMNTKTGTLOFNVTSLKD TGEYSCEARNSVGYRRCPGKRMQVDDLNISGIIAAVVVVHVLVIS VCGLGVCYAQRKGYFSKETSFKQSNSSSKATTMSENDFKHTKSF II
6879	3	845	IRVIGESDIMQEFLSESDENYNGVSDVELRVALPDGTTVTVRVK KNSTTDQVYQAIKAKVGMDSITVNYFALFEVISHSFVRKLAPNE FPHKLYIQNYTSAPVGTCLTIRKWLPTTEBILINDNDLAVTYF FHQAVDDVKGYIKAEESYQLQKLYEQRMVMYLNMLRTCEGY NEIIFPHCACDSRRKGHVITAISITHFKLHACTEEGQLENQVIA FEWDEMQRWDTDEEGMAFCFEYARGEKKPRVWKIFTPIFYNYMHE CFERVFCLEKWKKEEY
6880	2110	1437	RKDNCTAKEWTFPEAKWNTTARVFSHIRLGMGHVLIIVQCFISS MANIYNEKILKEGNQLTESIFIQNSKLYFFGILFNGLTGLGLQRS NRDQIKNCGFFYGHRAFSVALIFVTAFQGLSVAFILKFLDNMFH VLMAQVTTVITTVSVLVDFRPSLEFFLEAPSVLISIFIYNAS KPQVPEYAPRQERIRDLSGNLWERSSGDGEELERLTKPKSDESD EDTF
6881	2638	2244	NDSKWEDIHVITGALKMFFRELPEPLFTFNHFNDFVNAIKQEPR QRVAAVKDLIRQLPKPNQDMQILFRHLRRVIENGEKNRMITYQS IAIVFGPTLLKPEKETGNIAVHTVYQNQIVELILLELSSIFGR
6882	1	850	GPEAQLWIYVPVKSCKGVPVSEACTAMGLRSGNLRDRFWLVIN QEGNMVTVARQBPRLVLISLTCGDITLTLAAAYTKDLLLPKTP TNAVHKCRVHGLEIEGRDCGEATAQWITSFLKSQPYRLVHFEPM MRPRRPHQIADLFRPKDQIAYSSTSPFLLSEASLADLNSRLEK

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			KVKATNFRPNIVISGCDVYAEDSWDELLIGDVELKRVMACSRCI LTTVDPDGTGVMRSRKEPLETLKSYRQC DP SERKLYGKSPLFGQYF VLENPGTIKVGDPVYLLGQ
6883	2794	2256	NSKLLNQNKLKLFITLTQVLSLHGWGPGIHLQKEGAFPPVTQNR ALQLLYDLRYLNI VLTAKGDEVKSGRSKPDRIEKVTDHLEALI DPFDLDVFTPHLNSNLHRLVQRTSVLFGLVGTGTENQLAPRSSTF NSQEPHNILPLASSQIRFGLPLSMTSTRKAKSTRNIETKAQYD ANC
6884	2	99	EFERVTAEA VKPRETSEPRAAAQRCEKFPPL
6885	297	1554	STGQFWHVTDLHLDFTYHITDDHTKVCASSKGANASNP GPF GDV LCDSPYQLILSAFDFIKNSGQEASFMWTGDSPPHVPVPELST TVINVTNMTTITQSLFPNLQVFPALGNHDYWPQDQLSVVTSKV YNAVANLWKFWLDEEAISTLRKGGFYQKVTNPNLRIISLNTN LYYGNIMTLNKTDPANQFEWLESTLNSSQNKKEVYIIAHVPV GYLPSSQNTAMREYYNEKLIDIFQKYSVDIAGQFYGHTRDSI MVLSDKKGSPVNSLFEVAPAVTPVKSVLEKQTNPNPGLRFQYDPR DYKLLDMLQYYLNLTEANLKGESIWKLEYILTQTVDIEDLPES LYGLAKQFTILDSKQFIKYNYFFVSVYDSSVTCDKTKCAFPQICA IMNLDNISYADCLQQLYIKHNY
6886	2	1341	QCGGIPREGGSSRPLEEGTGSSPACVRGAAPGSEDAFYPTRAK QARVSQELKKAARTVSI SEGPDTLGDGMRRERETLALAPEPEP LEKEACEKWKRPFRSASATSLTSHCVDVVGKLLDFKKRRGHSI GGAPEQRYQIIPVCVAARLPTRAQDVLD AHLSEVNAVRFPGNSS LLATGGADRLIHLWNVVGSRLEANQTLGAGGSI TSVD FPDPSGY QVLAATYNQAAQLWKVGAEQSKETLSGHKDKVTAAKFKLTRHQA VTGSRDRTVKEWDLGRAYCSRTINVL SYCNDVVCGDHIIISGHN DQKIRFWDSRGPHCTQVIPVQGRVTSLSLSDQLHLLSCSRDNT LKVIDLRVSNIRQVFRADGFKCGSDWT KAVFSPDRSYALAGSCD GALYIWDVDTGKLESRLQGGPHCAAVNAVANCYSGSHMVSV DQGR KVVWQ
6887	1047	116	WTARPSQKPFWEAGAVPGDPLSTGCSQAQLGGCCPRGPWGPQHG QQORRAAGPTLPRGERGGPQQSGPGLAAQTPTTSKQVAVRAFLTG TYRSQSPRSPAGPFRGGTGWWEPAVCLCVAVGPQRLSSPGLVY NASGSEHCYDIYRLYHSCADPTGCGTGP DARAWDYQACTEINTL FASNNTDMFPDLPFTDELQRQYCLDTGWVWPRPDWLLTSFWGG DLRAASNIIFSNGNLDPWAGGGIRNLSASVIAVTIQGGAHLLD LRASHPEDPASVVEARKLEATIIGEWVKAARREQPALRGGPRL SL
6888	1	992	FVAVVKKKEIPHI VVTHCLLNPHALVIKTLPTKLRDALFTVVRVI NFIKGRAPNHRLEQAFEEIGIEYSVLLFHTMRWLSRGQILTH IFEMYERINQPLHKKSSNLVDGFENKEFKIHLAYLADLPFKHLE LSASMQRGTGMNTVSAREKLSAFVRKFPFWQKRIEKRNTFNFPFL EEIIVSDNEGIFIAAEITLHLQQLSNFFHGYFSIGDLNEASKWI LDPFLFNIDFVDDSYLMKNDLAELRASGQILMEFETMKLEDFWC AQFTAFPNLAKTALEILMPFATTYLCELGFSITFTFQNKVPEAA LILSDDIRVAISKVPSFLGHH
6889	1	1534	LTLENQIKEEREQDNSESPNGRTSPLVSQNNEQGSTLRDLLTTT AGKLRVGS TDAGIAFAPVYSMGAPSSKSGRTMPNILLDDI IASVV ENKIPPSKTSKINVKPELKEEPEESIISAVDENNKLYSDIPHSW ICEKHILWLKDYKNSSNWKLEKECWNKQGGP AVVSGVHKMNISL WKAESI SLDPGDHQADLLNCKDSIISNANVKEFWDGFEVSKRQ KNKSGETVVLKLDWPSGEDFKTMMPARYEDLLKSLPLPEYCNP EGKFNLAHLPGFFVRPDLGPRLCSAYGVVAAKDHDIGTNTLHI EVS DVVNILVYVGIAGNGILSKAGILKKFEEDLDDILRKLRL DSSEIPGALWHIYAGKDVKIREFLQKISKEQGLEVLPEHDP IR DQSWYVNNKLRQLLEBYGVRTWTLIQFLGDAIVLPAGALHQVQ

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			NPHSCIQVTEDFVSPEHLVESFHLTQELRLKKEINYDDKLQVK NILYHAVKEMVRALKIHEDEVDDMEEN
6890	3	667	THACGMWIPLYLHRALVVHKTARTCNPPCGAKDSLIFGATTCF TGFLGVDGTGAGATRWCRKLTORADPLVCAVGLGSAIFICLIFV AAKSSIVGAYICIFVGETLLFSNWAITADILMYVVIPTRRATAV ALQSFTHLLGDAGSPYLGIFISDLIRQSTKDSPLWEFLSLGYA LMLCPFVVVLGGMFFLATALFFVSDRARAQQVQNQLAMPASVK V
6891	1980	1262	LRHQELLSKELKLLRGITIESIIHIGLAAGKEQFMQDASNMVQ LLLKTQSHLYNMEDNNPEVRQAAAYGLGVMAQFGDDYRSLCSE AVPLHLVKIKRAHSKTKKNVIATENCISAIGKILKPKPNCNVND EVLPHVLSWLPHEDEKAIQTLSFLCDLIESNHPVVGPNNSN LPKIIISIIAEGKINETINYEDPCAKRLANVVRQVQTSSEDLNLEC VSQLDDEQQEALQELLNFA
6892	3	876	RSVAAASGPGAWGTDHYCLELLRKRDEYGLCSLLLPASRSSV FALRAFNVELAQKDSVSEKTIGLMRMQFWKKTVEDIYCDNPPH QPVAIELWKAVKRHNLTWRWLMKIVDEREKNLDDKAYRNKELE NYAENTQSSLLYLTLILGKIDLDHADHAASHIGKAQGIIVTCLRA TPYHGSRRKVFLEPMDICMLHGVSQEDFLRRNQDKNVRDVIYDIA SQALHLKHAARSFHKTVPVKAPFAFLQTVSLEDFLKKIQRVDFD IFHPSLQQKNTLLPLLYLIQSWRKY
6893	1	842	DGERKSMVSVERTFSEINKAEEQYSLCQELCSELAQDLQKERLKG RTVTIKLKNVNFVETRASTVSSVVSTABEIFAIAKELLKTEID ADFPHPLRLRMGVRISFPNEEDRKHQQRSTIGFLOAGNQALS ATECTLEKTDKDKFVKPLEMSHKKSFFDKKRSEKKNHQDTFKC EAVNKQSFQTSQPFQVLKKMMENLEISENSDDCQILTQVCFR AQGCISLEALNKHVDECLDGGPSISENFKMFSCSHVSATKVNKKE NVPASSLCEKQDYEAH
6894	1742	1463	TTLCKPLVPREHQFYETLPAEMRKFTPOYKGKSQLLEGLPHWRG DVRDRGHRPWPQPSLEPSLPFTLCFPLSSFSSSWPSAHLTPS VFNFVW
6895	2379	478	VTVVELCDLASPTALLIMRTVLDLIVEDLQSTSEDEKQYTSQT TRLALLYALASHKACKLAILHLINGTIKGDERYAEIFQDLLAL VRSPGDSVIRQQCQVEYVTSILQSLCDQDIALILPSSSESGSISEL EQLSNLSLNPKELMSTICDCLLATLANSESYNCLLTCVRTMMFL AEHDYGLFHLKSSLRKNSSALHSLKRVVSTFSKDTGELASSFL EFMRQILNSDTIGCCGDDNGLMEVEGAHTSRMTSINAELKQLL QSKEESPENLFLELEKLVLEHSKDDNDLSDLLDSVVGKQMLLES SGDPLPLSDQDQVEPVLAPESLQNLFMNRTAYVLADVMDQKLS MWFTPFQAEEDITDLVLKVDLIELSEKCCSDFDLHSELESFL SEPSSPGRTTKTKGFKLGKHKHETFITSSGKSEYIEPAKRAHV PPPRGRGRGGPGQGIKPHDIFRQRKQNTSRPPSMHVDDFVAAES KEVVPQDGIPPPKRPLKVSQKISSRGGSFSGNRGGRGAFHSQNR FTPPASKGNYSRREGTRGSSWSAQNTPRGNYNESRGGSQSNFNR PLPPLRPLSSTGYRPSPRDRASRGRGGLGPSWASANSRGGSGRG KFVSGSGRGRHVRSTFR
6896	1	555	GNIVIQKKYKQHIIPLENVTIDSIDEGDLRNGWLKTPKTS FAVYAATATEKSEWMNHINKCVTDLLSKSGKTPSNEHAADVVD SEATVCMRCQAKFTPVNRRHCRKCGFVVCGPCSEKRFLLPSQ SSKPVRIICDFYDLSAGDMATCQPARSDSYSQSLKSLNDMSD DDDDDDSSD
6897	3	920	GDGLMHEVVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHY AGYEQVTNEDLLTNCTLLCRLLSPMNLSSLHTASGLRFLSVL SLAWGFADVDLESEKYRRLGEMRFTLTGTLRLAALRTYRGRLA YLPVGRVSGSKTPASEVVVQGGPVDHLVPLEEPVPSKWTVPDE DFVLVLALLHSHLGSEMPAAMPGRCAAGVMHLFYVRAGVSRAML

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			LRLFLAMEKGRHMEYECPLYVYPVAFRLPEPKDGKGVFAVDGE LMVSEAVQGGQVHPNYFWMVSGCCEPPSWKPPQMPPEEPL
6898	919	346	QKTVTAVASLLKGRQGIYTENERRMGAIVKIRFFKIMLVLTICW LSNI INESLLFYLEMQTDINGGSLKPVRTAAKTTFWIMGILNPA QGFLLSLAFYGTGCSLGFQSPRKEIQWESLTTSAABGAHPSPPL MPHENPASGKVSQVGGQTSDEALSMLESGSDASTIEHTASESC NKNEGDEALPTHGDL
6899	120	827	MKVRKNNDAYLLDNKNINMDCFISCFKKMLTLMFHSHGILSL LEHGEYTFSLPCAYARSILTVPWVELGGKVSVCNCAKTGYSASI TFHTKPFYGGKLHRVTAEVKHNTNTTVCRVQGEWNSVLEFTYS NGETKYVDLTKLAVTKKRVPRLEKQDPFESRRLWKNVTDLSLRES EDDKATEHKHTLEERQRTTEERHRTETGTPWKTKYFIKEGDGWVY HKPLWKIIPITQPAE
6900	3	451	TEVLGSKGIHELRSSTSLHHALESASLLTMFWRAALPSTHIP VLPKGVGESTERELLELRKTVSQEQQLQSTTEHLKNANQKQES MEQFIVSQLTRTHDVLKARTNLEVRKLLHQSEAPSLSPTHHP LADLVGDSWPALRFQEK
6901	1	201	DDNMVQRLTDFKMTLQQQSTLEQWAAWLDNVMQALPKPYEGRP SFPKAAARQFLKWSFYRYHLGFS
6902	2	267	GAPPPFPSPQPPQAPSSHPHSDLTNPFSSALEGQAGAQA SDMPFPSLDLLPELTNPDELLSYLDPDLPSNSNDLLSLFENN
6903	1	149	RINQVYRQGETGIHILVIDQMVFQDESCFLFSTVKAESSDGI HIILK
6904	464	2092	MEASLPVSLSCVLACGDVEGKFDILFNVRVQAIQKKSNGFDLLC VGNFEGSTQDAEWEYKGTGKKAPIQTYVLGANNQETVKYFQDA DGCELAENITYLGRKGIFTGSSGLQIVYLSGTESLNEPVGYSF SPKDVSSSLRMLCTTSQFKGV DILLTSPWPKCVGNFGNSSGEVD TKKCGSALVSSLATGLKPRYHFAALEKTYERLPYRNHILQEN AOHATRFIALANVGNPEKKKLYAFSIVPMKLMDAELVKQPPD VTENPYRKSGQEASIGKQILAPVEESACQFFFDLNEKQGRKRSS TGRDSKSSPHKQPRKPPQPPGPCWFCCLASPEVEKHLVNVIGTH CYLALAKGGLSDHVLILPIGHYQSVVLSAEVVEVEKYKATL RRFFKSRGKWCVVFNRYKSHHLQLQVIVPVPISCSTTDDIKDAF ITQAEQEQIELLEIPEHSDIKQIAQPGAAFYVELDTGEKLFHR IKNFPLQFGREVLAASEAILNVDPKSDWRQCQISKDEETLARR FRKDFEYDFTLDD
6905	1	226	VSKTGEAETITSHYLFALGVYRTLYLFNWIWRVHFEGFFDLIAI VAGLVQTVLYCDDFFLYITKVLKGGKLSLPA
6906	3	611	SYDDHNGHIDFTTAASNLRKMYSEIADRFRTKRIAGKITPAI ATTTATVSGLVALEMIKVTGGYPFEAYKNWFLNLAIPVVFETET TEVRKTKIRNGISFTIWRWTVHGKEDFTLLDFINAVKEKYGIE PTMVVQGVKMLYVPMVPGHAKRLKLTMHKLVPKTEKKYVOLT SFAPDIDGDEDLPGPPVRYFSDTD
6907	2	2228	LRGVFWAAGAFRFSSEESTSHLIMSRRSRQLTRYSGDDDDGS SSSGSSVAGSQSTLFKDSPLRTLKRKSSNMKRLSPAPQLGPSS DAHTSYYESLVHESWFPFRSSLEELHGDANWGEDLRVRRRGRT GGSESSRASGLVGRKATEDFLGSSSGYSSSEDDYVGYSVDVQSS SSRLRSVAVSRAGSLLMVATSPGRLFRLLYWWAGITWYRLTAA SLLDVFLTRRFSSSLKTLFWLLPLLLLTCLTYGAWFYFYPGLQ TFHPALVSWWAADSRRADEGWAEADSSPHFQAEQVRMSRVHSL ERRLEALAEFSSNWQKAMRLERLELRQCAPGQGGGGGLSHBD TLALLEGLVSRREAALKEDFRRETAARIQEELSALRAEHQDSE DLFKKIVRASQSEARIQQLKSEWQSMQTQESFQESSVKELRRL DQLAGLQQLAALALKQSSVABEVGLLPQQIQAVRDDVSESQFPA WISQFLARGGGGRVGLLQREEMQAQLRELESKILTHVAEMQGKS

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			AREAAASLSLTLOKEGVIGVTEEQVHHIVKQALQRYSEDRTGLA DYALESGGASVISTRCSYETKTALLSLFGIPLWYHSQSPRVI LQPDVHPGNCWAFQGPQGFVAVRLSARIRPTAVTLEHVPKALSP NSTISSAPKDFAIFGFDEDLQOEGTLLGKFTYDQDGEPIQTFHF QAPTMATYQVVELRILTNWGHPEYTCIYRFRVHGEPAH
6908	3	780	QVPSAAWLMMAVCGLSRLGLSRLGLQCGFGAARLLYFRFQSRG PQGVEDGDRPQPSKTPRIPIKIYTKTGDKGFSSTFTGERRPKDD QVFEAVGTTDELSSAIGFALELVTEKGHTFAELQKIQCTLQDV GSALATPCSSAREAHLKYTTFFKAGPILELEQWIDKYTSQLPPLT AFILPSGGKISSALHFCRAVCRAERRVPLVQMGETDANVAKP LNRLSDYLFTLARYAAMKEGNQEKIYKNDPFAESSEGL
6909	3	409	GRLLAVGTDLYGQRSSAPEQELLVQDATPVNSLLPEKAFSDIP SPYLRGTIKMMQAVRQAFQDQDDRRTWGDRPLTMAATFDDCLYA LCVVDITIKRSSQTGEWQNIAMTEPELSPAYLISEAMRRSRMS LYC
6910	1	1068	LVPVVVIDSYYYGKLVIAPLNIVLYNIFTPHGPDLYGTEPWYFY LINGPLNPNVAFALALLVPLTSLMEYLLQRFHVQNLGHPYWL LAPMYIWFIIFFIQPHKEERFLFPVYPLICLCAVALSALQHSF LYFQKCYHFVFORYLEHYTVTSNWLALGTVFLGLLSFRSVA LFRGYHGPLDLYPEFYRIATDPTIHTVPEGRPVNVCVGKEWYRF PSSFLPDNWLQOFIPSEFRGQLPKPFAEGPLATRIVPTDMNDQ NLEEPSRYIDISKCHYLVOLDTMRTPREPKYSSNKEEWISLAY RPFLLDASRSSKLLRAFYVFFLSDQYTVVNYTILKPRKAKQIRK KSGG
6911	1184	966	GEDAEEMETGNVANLISIFGSSFSGLLRKSPGGGREGEEEGEESG PEAAEPGQICCDKPVLRDMNPWSTAIVAF
6912	1	844	AMKPVETHSFOMLFITLSTGSALKQSYEDAYRCIKSSITLIGSI SGGTDIISCFMGNHNSLFPVYKGEIQARNLGMAVEAWNEEGKAVW GESGELVCTKPIPCQPTHFNDENGKRYKAYFSKFPPIWAHGD YCRINPKTGGIVMLGRSDGTILNPNGVRFSGSEIYNIVESFEEVE DSLCPVQYNYKREERVILFLKMASGHAFQPDIVKRIKIRDAIRMGL SARHVPISLILETKGIPYTLNGKKVEVAVKQIIAGKAVEQGGAFS NPETLDLYRDIPELQGF
6913	1643	1558	KKSHEESHKEELSYGAQASLPLPCSDFR
6914	1251	615	ELAABCKSAGYPGTLPYRCDLNEDILSMFSAIRSQHSGVDI CINNAGLARPDTLTSGSTSGWKDMFNVNVLALSICTREAYQSMK ERNVDDGHIININSMGHRVPLSVTHFYSAKYAVTALTEGLR QELREAQTHIRATCISPGVVETQFAPKLHDKDPEKAAATYEQMK CLKPEDVAEAVIYVLSTPAHIQIGDIQMRPTEQVT
6915	254	652	GRSLSFKTFLIWVLISYQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHWLMVVAEFLSLGCVVSSLAFLNEYFD VAFITTVTFLWKVSAITVVSCLPLVVLKYLRRKLSPPSYCKLAS
6916	254	652	GRSLSFKTFLIWVLISYQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHWLMVVAEFLSLGCVVSSLAFLNEYFD VAFITTVTFLWKVSAITVVSCLPLVVLKYLRRKLSPPSYCKLAS
6917	254	652	GRSLSFKTFLIWVLISYQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHWLMVVAEFLSLGCVVSSLAFLNEYFD VAFITTVTFLWKVSAITVVSCLPLVVLKYLRRKLSPPSYCKLAS
6918	28	921	PEACTRSWREPDPEDLRRFLLSAACRSFPQWLPGGGGGQVSSCS DTPVPYLLAVKSEPRFAERQAVRETWGPAPGIRLLFLLGSP VGEAGPDLDSLVAWESRRYSDLLWDFLDVFPNQTLKDLLLLAW LGRHCPTVSVFLRAQDDAFVHTPALLAHLRALPASARSYLGE VFTQAMPLRKPGGPFYVPESFFEGGYPAYASGGGYVIAGRLAPW LLRAAARVAPFFEDVYTGLCIRALGLVPQAHPGFLTAWPADRT ADHCAFRNLLVLRPLGPOASIRLWKQLQDPRQLQC

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6919	850	41	QGRRELSGSVFCFFIQQEPKEMLTSEYHERVRSQGQQLQQLQA ELDKLHKEVSTVRAANSERVAKLVFQRLNEDFVRKPDYALSSVG ASIDLQKTSHDYADRNTAYFWNRFSFWNYARPPTVILEPHVFPF NCWAFEGDQGVVQLPGRVQLSDITLQHPSPSVEHTGGANSAP RDFAVFLLSFFTHQGLQVYDETEVSLGKFTFDVEKSEIQTFHL QNDPPAAPPVKVIQILSNWGHPRPTCLYRVRAGVRTSEGAEGS AQGPH
6920	1418	591	EAQGSPKSVHLTLK
6921	2	1711	MNATRSSEQFHVINHAEQTLRKMEVNLKKEQLCDVLLIAGHLRI PAHRLVLSAVSDYFAAMFTNDVLEAKQBEVRMEGVDPNALNSLV QYAYTGVQLKEDTIESLLAAACLLQLTQVIDVCSNFLIKQLHP SNCLGIRSGDAGQCTELLNVAKYTMHEFIEVIKNQEFLLLP NEISKLLCSDDINVPDEETIFHALMQWVGHVQNRQGEGLMLLS YIRLPLPPQLLADLETSSMFTGDLCEQKLLMEAMKYHLLPERR SMMQSPRTKPRKSTVGALYAVGGMDAMKGTITIEKYDLRTNSWL HIGTMNGRRLLQFGVAVIDNKLYVVGGRDGLKTLNTECFNPVGK IWTVMPPMSTHRHGLGVATLEGPMYAVGGHDGWSYLNTERWDP EGRQWNYVASMSTPRSTVGVALNNKLYAIGGRDGSCLKSMY FDPHTNKWSLCAPMSKRRGGVGATYNGFLYVVGHDAPASNHC SRLSDCVERYPKGDSDWSTVAPLSVPRDAVAVCPLGDKLYVVG YDGHYTLNTEVSYDAQRNEWKEVPPVNIAGACVTVVKLP
6922	1075	369	LTPFAGIRHEVRDREREREREREREKFPDSTGSELKQNTHSIT GLPPAMQKVMYKGLAPEDKTLREIKVTSGAKIMGGSTINDVLA VNTPKDAAQDQAKAENKKEPLCRQKQHRKVLDDKGPEDVMPVS KGAQERLPTVPLSGMYNKS GGVRLTFKLEQDQLWIGTKERTK LPMGSIKNVSEPIEGHEDYHMMAPQLGPTASYYWVWPTQY VDATKDTVLGKQWYF
6923	2469	1660	LGLFCYLPIDTLCAVLERDTSIRESRLFGAVVRWAEACQROQ LPVTFGNKQVLGKALSLIRFPLMTIEFAAGPAQSGILSDREV VNLFLHFTVNPKEPRVEYIDRPRCCLRGKECCINRFQQVESRWGY SGTSDRIRFTVNRISIVGFGLYGSIHGPTDYQVNIQIIIEYKK QTLGQNDTGFS CDGTANTFRVMFKEPIEILPNVCYTACATLKGP DSHYGTGLKLVVHETPAASKTVFFFFSSPGNNNGTSIEDGQIP EIIFFYT
6924	2210	1235	PEERVICFVEYYLTAHHEGRKALAKKPYNPIGETTFHCSWEVP KDRVKPKRTASRSPASCHEHPMADDPKSKYKLRFAEQVSHHPP ISCFYCECEKRLCVNTHVWTKSKFMGMSVGVSMIGEVLRLLLE HGEYVFTLPSAYARSILTI PWELGCKVSINCAKTGYSATVIF HTKPFYGGKVRHVTAEVKHNPTNTIVCKAHGEWNGTLEFTYNG ETKVIDTTLFPVYPKKIRPLEKQGPMEARNLWREVTYRLRGDI DAATEQKRHLEEKQVREERKRENLRTPWPKPYFIQEGDGSGLIQ SPLESTLMGLEVQSFPV
6925	2	1653	RGGAAGAAMEPDSVIEDKTIELMCSVPRSLWLGCANLVESMCAL SCLQSMPSVRCLQISNGTSSVIVSRKRPSSEGNQYQEKDLCIKYF DQWSESDQVEFVEHLISRMCHYQHGHIINSYLPMLQORDFITALP EQGLDHAENILSYLDARSLCAELVCKEWRVISEGMLWKKLI ERMVRTDPLWKGLSERRGWDQYLFKNRPTDGPSPNSFYRSLYPKI IQDIETIESNWRGGRHNLQRIQCRSENSKGVYCLQYDDEKISG LRDINSIKIWDKTSLECLKVLTHGTGSLVCLQYDERVIVTGSSDS TVRVWDVNTGEVNLTIHNEAVLHLRFNGLMVTCSKDRSIAV WDMASATDITLRRVLVGHRAAVNVVD FDDKIYIVSASGDRITIKW STSTCEFVRTLNHGKRGIAQLQYRDRLVVGSSDNTIRLWDIEC GACLRVLEGHEELVRCIRFDNKRIVSGAYDGKIKVWDLQAALDP RAPASTLCRLTLVEHSGRVFRLQFDEPQIISSSHDDTILINDFL NVPPSAQNETRSPRTYTYISR
6926	1	733	SGRVAMDGLGLQFPFEGGFPAGPPLPPHMGGHYRDCQSLGAPPL

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			DGYPLPTPDTSPLDGVDPPAFFAAPMPGDCPAAGTYSYAQVSD YAGPPEPPAGPMHPRLGPEPAGPSIPGLLAPPSALHVYVGAMGS PGAGGGRGFQMQPQHQQHQQHQQHPPGGQPTPPPEALPCRDT DPSQPAELLGEVDRTFEFEQYLFVCKPEMGLPVQGHDSGVNLPD SHGAISSVVSASSAVVYCNYPDV
6927	2	1484	LTLCGDIQLMLAQNANNRAHLEEFHYQTKEDQEILHSLHRESS CQGFATWATDLS TDLESQSVSCKCYEAAANBILQFRDLKSQNPHEH YVQVLKRMGNIRNEIGVFYMNQAAALQSERLVSKSVSAAEQQLW KKSFCFEKGIHNFESIEDATNAALLCNTGRLMRICAAHCGA GDELKREFSPEEGLYINKAIDVYLKALRSLGTRDIHPAVWDSVN WELSTTYFTMATLQDDYAPLSRKAQEQTKEVSEAMMKSLEYCD VDSVSARQPLCQYRAATIHRLASMYHSCLRNQVGEHLRQKQR VLADLHYSKAAKLFQLLKDAPCELLRVQLERVAFAEFQMTSQNS NVGKLKTLGALDINVRTEHAFQLIQKELIEEFGQPKSGDAAA ADASPSLNREBVMKLLSIFESRLSFLLLQSIKLLSSTKKKTSNN IEDDTILKTNKHIYSQLLRATANKTATLLERINVIVHLLGQLAA GSAASSNAVQ
6928	1086	777	EADILINNLLQVKMRKRYSDKTLSPWLDQYQTLWDLRELECK IGERYITHESDDLREWEKYAGEQGLQYPTHLINPSASHSDTPETE ETEMKALGERVSIL
6929	1749	607	RDQGRYRDDRSAPREPQDVARSRSRGGGGGRSATTAMPPFPVNG NLHQHDPQDLRHNGNVVAGRPSCSRGPERRAIQKQPAGGRRSG RGPAAGGLCLQPPDGGTCVPEEPPVPPMDWEALEKHLAQLQFRE QEVNRQGGARTNSTSAQKNERESIRQKLAGSFFDDGPGIYTSC SKSGKPSLSSRLQSGMNLQICFVNDSGSDKSDADDSTKETS TPLSPMSKQSSSYSDRDTTEESSESLDDMDFLTRQKQLQAEAKM ALAMAKPMAMQVEVEKQNRKKSFPVADLLPHMPHISECLMKRSL KPTDLRDMTIGQLQVIVNDLHQSIESLNEELVQLLLIRDELHTE QDAMLVDIEDLTHAESQKHKMAEKMPAK
6930	131	545	FKDTANVFVSLFQMRNNFRHYFIEPSQLKLEYDVITWITQVAI SYTVVPFVLLSIKPSLTFYSSWYICHLILGILVLLLPVKKTQR RKNTHENIQLSQSKKFDGENSLGQNSFSTNNVCNQNEIASR HSSLKQ
6931	2	659	FVERLPNRPACLLVASGAAGVSAQSFLHCFTMASTAFNLQVAT PGGKAMEFVDVTESNARWVQDFRLKAYASPAKLESIDGARYHAL LIPSCPGALTDLASSGSLARILQHFHSES KPICAVGHGVAALCC ATNEDRSWVFDSSYSLTGPSVCELVRAFGFARLPLVVEDFVKDSG ACFSASEPDAVHVLDRLHVTGQNASSTVPAVQNLLFLCGSRK
6932	2	1131	FVDSPGQGEQAEIEEGGIQMNMRRAHSPAEGASVESSSPGPKK SDMCEGCRSLAAGHPGYISHDKETSIKYVSHQHPHQPQLFSIVR QACVRSLSCEVCPGREGPIFFGDEQHGPFVFSHTFFIKDSLARGF QRWYSIITIMMDRIYLINSWPFLGKVRGIIIDELQGKALKVFEA EQFGCPQRAQRMNTAFTFPLHQRNQNAARSLTSLTSDDNLWACL HTSFALLKACGSRLTEKLEGAFTEDTLVQMEKLADLEESES WDNSEAEEEEKAPVLPSTEGRELTQGPAAESSLSGCGSWQPRK LPVFKSLRHMROVGGRGTAAHHLRRRANHGLCLPTRLASGPSTL KTLQEVTDLSLGGWLMAGQVGGII
6933	1431	890	SLNLHCTLPFPFHQYFAGYPSDKKPKGQSKQPSGCTTKRPI SDDDCPSASKVYKASDSAAEIAFQLTPQQHLLIREDCQNQKLW DEVLSHLVEGPNFLKKLEQSFMCVCCQELVYQPVTTTECFHNVCK DCLORSFKAQVFSCPACRHDLGQNYIMIPNEILQTLDDLFFFGY SKGR
6934	3030	2588	DRDHSQCGGIRRVALARVSSVKLISKAKIRTVKMTPIIVLAFIV CWTPTFFVQMWVSDANAPKEASAFIIVMLLASLNSCCNPWYIM LFTGHLFHELVRFLCCSASYLKGRRIGETSASKKSNSSSFVLS HRSSSQRSQSQPSTA

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6935	886	543	NSALYVAGGNDGTSCLNSVERYSPKAGAWESVAPMNIRRSTHDL VAMDGWLYAVGCGNDGSSSLNSIEKYNPRNTKNWAASCMFTRRSS VGVAVLELLNFPPSPPTLSVSSTSL
6936	1347	567	RSHRRQFLSRALLEFFGKSHPPPHRLFRKSLNVGLHYSHIPFLT TCLHFLRKRRLQKGEVGLSVETSKPQVPVGGLSRKKVPQEPWATV MEKRLQEAQLYKEEGNQRYREGKYRDAVSRYHRALLQLRGLDPS LPSPLPNLGPQGPALTPEQENILHTTQTDCCYNLAACLLQMEPV NYERVREYSQKVLERQPDNAKALYRAGVAFFHLQDYDQARHYLL AAVNRQPKDANVRRYLQLTQSELSSYHRKEKQLYLGFMFG
6937	1	727	AVEFRCCPGRPACFARGWRDLRVYGTCTCDQACRFTGDCCFDY DRACPARPCFVGEWSPWSGCADQCKPTTRVRRRSVQQEPQNGGA PCPPLEERAGCLEYSTPQQDCGHTYVPFITTSFANKERTROA TSPHWSHTEDAGYCMFETESLTPHCALENRPLTRWMQVLRG YTVCVDCQPPAMNSVSLRCSGDLSDGNQTLHWQAIGNPRCQG TWKKVRRVDQCSCPAVHSFIFI
6938	3	719	NSRKLLEAERVDTFDMQLKRRQSSSEKENDSGTLDTVGAVVVVDH EGNVAAAVSSGGLALKHPGRVGAALYCGCWAENTGAHNPYST AVSTSGCGEHLVRTLARECSHALQAEDAHOALLETMQNKFISS PFLASEDGLVGGVIVLRSCRCSEAFDSSQNKQTLLEFVLSHTT ESMCVGYMSAQDGKAKTHISRLPPGAVAGQSVAIIEGGVCRLEP SELTLQAECEASQRHFRF
6939	3	810	KVTAPRRPQRYSSCHGSDNSSLVSGELPPAMGRTALFHHSGGSS GYESLRRDSEATGSASSAPDSMESGASPGARTSLKSPKKRA TGLQRRRLIPAPLEDTTALGRKPSLPGQWVDLPPPLAGSLKEPF EIKVYEIDDERLQRPRTPREAPTQGLACVSTRRLAERRQQR LREVQAKHKLCEELAETQGRMLLEPGRWLEQFEVDPELEPESA EYLAALERATAALEQCVNLCKAHVMMVTCFDISVAASAAIPGPQ EVDV
6940	1188	496	GKMAAQPLRHRRCATPPRGDFCGGTERAIDQASFTTSMENDTQ VVKGSSPLGPAGLGAEEPAAGPQLPSWLQPERCAVFCQAQCHAV LADSVHLAWDLRSRLGAVVFSRVNTNNVLEAPFLVIGIEGSLKGS TYNLLFCGSCGIPVGFHLYSTHAALALRGHFCLSSDKMVCYLL KTXAIVNASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLMKILS EVTPDQSKPEN
6941	1	713	SLSRADSDPHGPHTCGHVLNVIIGSNVLALEAQRQAEALGYQA VVLSAAMQGDVKSMAQFYGLLAHVARTRLTPSMAGASVEEDAQL HELAAELQIPDLQLEEALETMAWGRGPVCLLAGGEPTVQLQSGG RGRNQELALRVGAELRRWPLGPIDVLFSLGGTDGQDGPTEAAG AWVTPELASQAAAEGLDIATFLAHNDSHTFFCCLQGGAHLLHTG MTGTNVMDTHLLFLRPR
6942	1	246	GDYVERYDPKTDWTMGAPLSMPTNAVGGCLLGDRLYADGGYDG QTYLNTMESYDPQTNWTQMASLNIGRAGACVVVIKQP
6943	1	739	PMATGDGAKTLAIHVKALTADSIRITWKATLPASSFRLSWRLRG HSPAGGSITETLVQGBKTEYLLTALEPKPTYIICMVTMETTNAY VADETPVCAKAETADSYGPTTTLNQEQONAGPMASLPLAGIIGGA VALVFLFLVLGAI CWYVHQAGELLTRERAYNRGSRKKDDYMESG TKKDNSILEIRGPGLQMLPINPYRAKEEYVVHTIFPSNGSSLCK ATHTIGYGTTRGYRDGGIPDIDYSYT
6944	960	156	VANILLNGVKYSELTGSSERAEQPLSVGRCLSTICNMPKALRT LCVNHFLGWLSFEGMLLFYTDPMGEVVFOGDPKAPHTSEAYQKY NSGVTMGCWGMCIYAFSAAFYSAILKLEEFSLVRLTYFIAYLA FGLGTGLATLSRNLVVLSCITYGILFSTLCTLPYSLLCDYYQ SKKFAGSSADGTRRGMGVDISLLSCQYFLAQILVSLVLGPLTSA VGSANGVMYFSSLSVFLGCLYSSLFVIYEIPPSDAADEHRPLL LNV

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6945	2067	179	EGEDRGLPRTMGAALGTGTRLAPWPGRACGALPRWTPTAPAQGC HSKPGPARPVPLKKRGYDVTRNPHLNKGMAFTLEERLQLGIHGL IPPCFLSQDVQLLRIMRYERQQSDLDKYYIILMTLQDRNEKLFY RVLTSDEVKFMPIVYTPVGLACQHYGLTFRPRGLFITIHDKG HLAATMLNSWPEDNIKAVVVTGGERILGLGLGCYGMGIPVGKLA LYTACGGVNPQQCLFVLLDVGTNNEELLRDPLYIGLKHQVRHKG AYDDLDEDFMQAVTDKFGINCLIQFEDFANANAFRLNKNYRNKY CMFNDDIQGTASVAVAGILAAALRITKNKLSNVHFGFQAGGAEAM G\IAHLLVMALE\KEGVPKA\EATRKIW\MVDF\KGLIVQGRDH LNHKEKEMFAQD\HPEVNSLEEVVRLVKPTAIGVAAIAEA\FTE QILRDMASFHERP\IIFALSNPTSKAECTA\EKCYRVTEGPRGF FAS\GSPF*GVLIWEMGKTFIPGGRGNNA*RVPRGWQLGVHSPG GDPGHIP\DEIFLPDSRAKLPQEVSEQHLSQGRLYP\PLST\IR NVFLRIAIAKVPD*GYKHNLV\SYYPEPKD\KEAFCKIPGSYTPD YDSFYT\VDSEYIWAQCKAMNVQTV
6946	133	2551	SCHEYSGITVAPGDPCEGVAHLAPSMASDTPESLMALCTDFCLR NLDGTLGYLLDKETLRRLHPDIIFLPSEI\CDRLVNEYVELVNAAC NF\EPHE\SPFNPLFRDPRKQPASRIHL\RED\LVQD\QD\LE AIRKQDL\VEL\YLTN\CEKLSAKSLQTLRSFSHTLGVP*AFFG C\TNILLRKENPGGL/CEDEYLEFNPTCQVLVKDFTFEGFSRLR F\LLKLRMIDWVPVES\LLRPLNSLAALDLSGIQTSDDAA\PLTQ WKDSL\VSLVL\YNMDSDDHII\VIQHLKLRHLDISRDLSS YYKFKLTREVLSLFVQKLGNLMSLDISG\HMLENCISISKIGR EAGQTSI\EPSK\SSIIPFRGFEGGPLQF\LGVF*GIFCGRLTH IPAYKVSQDKNEEQVLNAIEAYTEHRPEITSRAINLLFDIARIE RCNQLLRALKLVIITALKCHKYDRNIQVTGSAAFLYLTNSEYRSE QSVKLRQVIQVVLNGMESYQEVTVQRNCCLTLCNFSIPEEFLE QYRRVNEILLSILNPTRODESQRIAVHLCNALVCQVDNDHKEA VGKMGFVVTMLKLTQKLLDKTCDQVMEFSW\SALWNITDETPD NCEMFLNFMGMKLPDCLNEFPEKQELHRNMLGLGNVAEVEL RPQLMTSQFISVFSNLLSKADGIEVSYNACGVLSHIMFDGPEA WGVCEPQREEVEERMWAAIQSWDINSRRNINYSFEPILRLLPQ GISPVSQHWATWALYNLVSVYPDKYCPLLIKEGGMPLLRDI IKM ATARQETKEMARKVIEHCNSNFKEENMDTSR
6947	2	1682	TSVSTIPRGLASARPQSRSWRCCPVWRRSPGRARGRLKMLNVP SQSFPAPRSQQRVASGGRSKVPLKQGRSLMDWIRLTKSGKDLTG LKGRLEIEVTEBELKXHNKDDCWICIRGFVYNVSPYMEYHPGGE DELMRAAGSDGTLEFDQVHRWVNYESMLKECLVGRMAIKPAVLK DYREEEKVLNGLPKSQVTDTLAKEGPSYPSYDWFQTDLSVTI /EHIY*TEGYQFRLNNS*SSE*FLYSRNNY*GLLISYTYW/R*A MRFRKIFLCGL/CESVGKIEIVLQKKENTSWDFLGHPLKNHNSL IPRKDTGLYYRKQCLISKEDVTHDTRLFCMLPSTHLPVPIGQ HVYLKLPITGTEIVKPYTPVSGSLLSEFKEPVLNNKYIYFLIK IYPTGLFTPELDRLQIGDFVSVSPEGNFKISKFQLEDLFLLA AGTGFTPMVKILNYALTDIPSLRKVKLMF FNKTEDDI IWRSQL E KLAFLKDKRLDVEFVLSAFISEWNGKQGHISPLLSEFLKRLNLDK SKVLVCICGPVPFTEQGVRLLDLNFNFKNEIHSFTA
6948	104	58	PDGAHSFFPDYFTCSSLCLSCGVGCKKSMNHGKEGVPHAEKSR CRYSHQYDNRVYTCACYERGEESVVPKTSASTDSPWMGLAKY AWSGYVIECPNCGVYRSRQYWPNGQDPVDTVVRTEIVHVWPGT DGFLKDNNAQAQRLDGMNFMAQSVSLSLGPTKAVTSWLTQDI APAYWRPNSQILSCNKCATSFKDNDTKHHCACGEGFCDSCSSK TRPVPERGWGPAPVRVCDNCYEAR/TRPVSCYRGTSGR*RRRT QETVE
6949	152	4656	GLRLCLSRPLTRPGDDSVGGSAMASGAGGVGGGGGKIRTRRCH QGPIKPYQQGRQQHGGILSRVTESVKNIVPGWLQRYFNKNEDVC

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6950	2585	411	<p>SCSTDTSEVPRWPNKEDHLVYADESSNITDGRITPEPAVSNT EEPSTTTAST\YPDVLTRVSLYRSHLNFMSLESPALHCQPS SAFFIGSSGFLVKEIKDSTSQHDDDNISTTSGFSSRASDKDIT VSKNTSLPPLWSPEAERSHLSQHTATSSKKPAFNLSAFGTLSP SLGNSSILKTSQGLDSPFFYPGKTTYGGAAAARQSKLRNTPYQA PVRQMKAKQLSAQSYGVTSSTARRILQSLKMSPLADAKRIP SIVSSPLNSPLDRSGIDITDFQAKREKVDQYPPVQRLMTPKPV SIATNRSVYFKPSLTPSGEFRKTNQRIKCKSTGYEKNMTPGQN REQRESGFSYPNFSPLPAANGLSSGVGGGGKMRERRHAFVASKP LEEEEMEGPVLPKISLPITSSSLPTFNFSSEIITSSPSPINSS QALTNKVMQTPSPSTGSPMFKFSSPIVKSTEANVLPPSSIGFTF SVPVAKTAEGLSGSSSTLEPIISSAHVTTVNSTNCKKTTPEDC EGPFRPAEILKEGSLVDILKSPGFASPKIDSVAAQPTATSPVY TRPAISSFSSSGIGFGEGLKAGSSWQCDTCLLQNKVTDNKCIC QAALSPRDTAKQTGIEPTPNKSGKTTLSASGTGFGDKFKPVIGT WDCDTCLVQNKPEAIKCVACETPKPGTCVKRALTLTVVESAET MTASSSSCTVTTGTLGFGDKFKRPIGSWECSVCCVSNNAEDNKC VSCMSEKPGSSVPTSSSSTVPVSLPSGGSLGLEKFKKPEGIWD ELCLVQNKADSTKCLACESAKPGTKSGFKGFDTSSSSSNSAASS SFKFGVSSSSSGPSQTLTSTGNFKFGDQGGFKIGVSSDSGYINP MSEGF*FSKHIVGFKFGVSSSEKPEEVKDKSKDNFKGLSFG SNPVFLTPFGVSNLQGEKKEELLKSSCAGFRFGTGVINSTR VPANTIVTSENKSSFNLGTIETKSVSVAPLKCTSEAKKEEMPA TKGGFSFGNVPEASLPASVFLGRTEEKQEPVTSTSLVFGEG KLTMKEPKC\QPVFSFGFQRTQDENSSKSTFSFMTKPSKE SEQPAKATFAFGAQTNTTADQGAAPDLNNSSSSSSTPAT AGGG\IFGSSTSSSNPPVATFVFGQSSNPGSS\AFGNTAESST SQSLLSQDSKLATTSSTGTAVTPFVFGPGASSNNTTSGFGFG ATTSSSAGSSFFVFGTGPSAPSPAFGANQPTFGQSQGASQP NPPGFGSISSTALFPTGSGPAPPTFGTVSSSSQPPVFGQGPSQ SARGSGTTPNSSSAFQFGSSTTNFNFTNNSPSGVFTFGANSSTP AASAQPSGSGGFFPNQSPAFTVGSNGKNVSSSGTSFSGRKIK TAVRRRK</p> <p>PRPGSRSGLCRRAGERGAVRAGGLSRRTAE*IMDELHYQDTS DVPEQRDSKCKVWTHEEDEQLRALVRQFGQDQWKLASHPPNR TDQCCQYRWLRVLNPDLVKGPWTKEEDQKVIELVKYGTQWTL IAHLKGRGLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAHKV LGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVDGTGGFLSESKDC KPPVYLLLELEDKDLQSAQPTGQGSLLTNWPSVPTIKEEN SEELAAATTSKEQEPITGDLDAVRTPEPLEEFPKREDOEGSP ETSLPYKWVVEANLLIPAVGSSLSALDLIESDPDAWCDLSKF DLPEEPSAEDSINNSLVQLQASHQQLVPPRQPSA/LVPSVTEY RLDGHITISLRSRSGELIPISPSTEVGGSGIGTPPSVLKRQRK RRVALSPVTENSTLSFLDSCNSLTPKSTPVKTLFFSPSQFLNF WKNQDTLELESPLTSTPVCSSQKVVTTLHRDKTFLHQAHA VTPDQKYSMDNTEHTPTFFKNALKEYGPKLPQTPHLEEDLKE VLRSEAGIELYIEDDIRPEKQKRKPLRRSPIKKVRKSLALDIV DEDMKLMSTLPKSLSLPTTAPSNSSSLTSGIKEDNSLLNQGF LQAKPEKAABAQKPRSHFTTAPMSSAWKTACGGTRDQLFMQE KARQLLGRLLKPSHTSRTLILS</p>
6951	1940	239	<p>AGPDDTMKRSLLQALYQLLSFLLILALTEALAFIQEPSPRESL QVLPSGTTPPGTMVTAPHSSSTRHTSVVMLTPNPDGPPSQAAAPMA TPTPRAEGHPPT\TPSPPSLRQ*PPPIKAP/SSTGPAPAAAMAT TSSKPEGRPRGQAAPTILLTKPPGATSRPTTAPRTTTRRPPRP PGSSRKAGAGNSRRPVPAPGGHRSRKEGORGRRNPSTPLGQKRP LGKIFQIYKGNFTGSEPEPSTLTPTPLWGYSSSQPQTVAAT</p>

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			<p>TVPSNTSWAPTTSLSGPAKDKPGLRRAAQQGGSTFTSQGGTPDA TAASGAPVSP/PSCPSAFSAPPPR*PTGWQP**LLAYCYP\CT SRPLSTSSGVFTAAATGPTPAAFDTSVSAPSOQIPQGAFTTPQAP THPSRVSESTISGAKEETVA\PSP*PTGCPVLSQWYQPPQAIS STAWSPPGPGSLGQQGTSPMWPRTNRSTEPSA*ARWISPG*S WPSACPSPP/LCPADGVLHEEEEDRQPGEQPEAYGNNTHTHPT TFQAC\RGAAPEI PVPLKPLRTQLSEPRSPANGDYRDTGMVPC</p>
6952	658	304	<p>PESEGESGEMTDRTYTHSQLEHLQSKYIGT\ATPTPPSGSG\CE PTPRLVLLHGLRPSQLLRHCGE*EQSASPLQDGDASALWT ASRQARGELRLCLTTAVRGTSPPSVSPVCQSS</p>
6953	1512	349	<p>NWGTKTRALASGKHVPFGKQTNPNKS/VHCDG*G**RRETTQDES FSPHFRGKMGVV\KLEKELENTQPVGGNEG*EHEVTGNLNSD PLLELCQCPLCQLDCGSREQLIAHVYQHTAAVVSAXSYM\CPVC GRALSSPGSLGRHLIHSDEQSRNCAVCGARFTSHATFNSEKLP EVLNMEISLPTVHNEGSSAEGKDIAPSPFVYPAGILLVCNNCAA YRKLEAQTPSVRKWLRRQNEPLEVRLQRLERERTAKKSRDN ETPEEREVRMRDRKAKRLQRMQETDEQRRRLQDREAMRLKR ALETPEKROARLIREREAKRLKRRLEKMDMLRAQFGQDPSAMA ALAAEMNFFQLPVSGVELDSQLGKMAFEEQNSSSLH</p>
6954	819	1	<p>PPPPFIIPSHPREAGT*AG*KRSGDSECSFVEQ*A*TRAAQN *PQR*RWTEGNSPOASAVATPGQGASPAAPRCTP*PSRRHRLP PGARPPAG*AAPAPT KPWLAGPASAPQPGAAPLSPPAPPLIRTR *CAGAAARGRPDRDRSPRPTPGGCSWSEPRTPPAVSASAPQTPS DAG*AGGR*GQRQRPSTGR*PPGVGGAGRSRRREGTIPGNPHPR AS*RAGWQR*PGP/REWGL*EPQGEEMSGPGGPGAPPNQVGSS VMQAMSTGI</p>
6955	1968	782	<p>PPGRQVRAQVAGAPVGHGTRARQVKTGRRRRARRTMFFLGQD WRSPGWSWIKTEDGWKRCECSQKLERENNHCNISHSIILNSED GEIFNNEEHEYASKKKKDHFRNDTNTQSFYREKWIYVHKESTK ERHGYCTLGEAFNRDLFSSAIQDIRRFNYVVKLLQLIAKSQTS LSGVAQKNYFNILDKIVQKVLDDHNPRLIKDLQLDLSSTLCIL /N*RSREVCISGKHQYLDLPIRNYSLRATTATGSSDD*ASEANG LTLSDLPLHMLNNILYRPSDGDWIIITLGQVTPPLYMLSEDRQLW KKLCQYHFAEKQFCRHLILSEKGIWKLMYFALQKHYPAKEQY GDTLHFCRHCSILFWKDSGHPCTAADPDSCFTPVSPQHFDLFK F</p>
6956	8605	3839	<p>QTSTSIASPTSPVVLGESVLQDNSFDLNNGSDAEQEEMETQSS DFPPSLTQAPDQSSSTIQLHPATSPAVSPPTSPAVSLVVSFAAS PEISPEVCPAASTVVSFAVSVVSFAVSLVPLTASV TSPKASPVTPAAAFPTASPANKDVSSFFLETADVEEITGEGLT ASGSGDVMRRRIATPEEVRPLQHGWRREVRIKKGSHRWQGETW YYGPCGKRMKQFPEVIKYSRNVVSVRREHFSFSRMPVGDFF EERTPEGLQWVQLSAEEIPSRITQITGKRGRPRNTEKARTKEV PKVKRGRGRPPKVKITELLNKTDNRPLKLEAQETLNEEDKAKI AKSKKMRQKVORGEQCTTIQQAARNKRQETKSLKQKEAKKS KAEKEKGKTKQEKLEKVKREKKEKVKMKEKEEVTAKPACKAD KTLATORRLEERQRMILEEMKKPTEDMCLTDHQPLPDFSRVP GLTLPSGAFSDCLTIVEFLHSFGKVLGFDPAKDVPSLGVLOEGL LCQGDLSLGEVQDLLVRLKAAALHDPGFPSYCQSLKILGEKVSEI PLTRDNVSEILRCFLMAYGVEPALCDRLTQPPQAQPPQQA LAFVHVLNGSTLIINEIDKTLESMSYRKNKWI VEGRLRLKT VLAKRTGRSEVEMEGPEECLGRRSSRIMEVTSGMEEEEEESI AAVPGRRGRDGEVDATASSIPELERQTEKLSKQQLFFRKLLH SSQMLRAVSLGQDRYRRRYWVLPYLAGIFVEGTGNLVPEEVIK KETDSLKVAHASLNPALFMSMKMELAGSNTTASSPARARGPRK</p>

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			TKPGSMQPRHLKSPVRGQDSEQFQAQLQPEAQLHAPAQPPQQLQ LQLQSHKGFLEQEGSPSLSGQSQHDLSSQAFLSWLSQTQSHSSL LSSSVLTPDSSPGKLDPAQSPPEEPDEAESSDPQALWFNI SAQMPCNAAPTPPAVSEDPQTPSPQQLASSKPMNRPSAANPCS PVQFSSTPLAGLAPKRRAGDPGEMQSPPTGLGQPKRRGRPPSKF FKQMEQRYLTQLTAQPVPPMCSGWWIRDPEDMLDAMLKALHPR GIREKALHKLHNKHRDPLQEVCLRPSADPIFEPRQLPAFOEGIM SWSPEKETYETDLAVLQWVEELEQVRVMSDLQIRGWTCPSPDST REDLAYCEHLSDSQEDITWRGRGREGGLAPQRKTNTPLDLAVMRL AALEQNVERRYLREPLWPTHEVLEKALLSTPNGAPEGTTTETIS YEITPRIRVWRQTLERCRSAAQVCLCLGQLERSIAWEKSVNKVT CLVCRKGDNDEFLLCDGCDRGCHYCHRPKMEAVPEGDWFTCV CLAQQVEGEFTQKPGFPKRGQKXKSGYSLNFBEGDGRRRRVLLR GRESPAAGPRYSEEGLSPKRRRLSMRNHSDLTFCETILMEME SHDAAWPFLEPVNRLVSGYRRIIKNPMDFSTMRERLLRGYTS SEEFAADALLVFDNCQTFNEDDSEVGKAGHIMRRFFE\SRWEEF YQGKQGSVRQGRWGVTLWHLPTPTQTKTCHFHLLMLPWWQTV RYNPDF
6957	82	3514	HLIVAMPEPTKKEENEVPAPAPPEEPSKEKEAGTTPAKDWTLV ETTPGEEQAKQNANSQLSILFIEKPQGGTVKVGEDITFIAKVKA EDLSEKPTINGSRKWMDLASKAGKHLQLKETFERHSRVYTFEMQ IIAKDNFAGNYRCEVTYKDRFDSCTDLEVHESGTTPNIDIR SAFKRSGEQEDAGELDFSGLLKRRVKKQEEEPQVDVWELLKN TKPSEYEKIAFPQESPTCSGMLKRLKRSIREKKSAFAKILDP VYQVDKGGVRVFVELADPKLEVKNKNGQELRPSTKYIFEDTR CQSI LNIDNCQMTDDSEYVVTAGDEKCTELLVREPPIMVTKQL EDTTDYCGERVELECEVSEDDAQVKNFKNGEEIILVQTRYRIRV EGKKHILIEGATKADAADYSVMTTGGQSSAKLSVDLPLKILT PLTDQTVNLGKEICLKCEISENIPGKWTNGLPVQESDRLLKVH KGRIHKLVIDHALTEDEGDYVFAPDAYNVTLPKAVHVIDPPKII LDGLDADNTVTIAGNKLRLIEPISGEPPPKAMWSRGDKAIMEG SGRIRTESYDSSSTLVIDIAERDDSGVYHINLKNEAGEAHASIK VKVVDFFDPPVAPTVEVGDDWCIMNWEPPAYDGGSPILGYFIE RKKKQSSRWMLNFDLCKETTFEPKKMIEGVAYEVRIFAVNA\I GISKPSMPSRPFVPLAVTSPPTLLTVDSVTDTTVMRWRPPDHI GAAGLDGYVLEYCFEGSTSAKQSDENGEAAYDLPAEDWIVANKD LIDKTKFTITGLPTDAKIFVRVKAVNAAGASEPKYYSQPILVKE IIEPPKIHSPKHLKQTYIRRVGDRVILVIFPQKPRPELTWKCD GAEIDKNQINIRNSETDTIIFIRKAERSHSGKYDLQVKVDKFVE TASIDIRIIDRPGPPQIVKIEDVWGRNVALTWTTPKDDGNAAIT GTYIQADKKSMEWLRVIEHIEPVPHTELIGNEYFRVFSN MCGLSEDATMTKESAVIARDGKIYKNPVYEDDFSEAPMFTQPL VNRLCHSGYMATLNCSSVRGNPKPKITWMKNKVAIVDDPRYRMFS NQGVCTLEIRKPSPYDGGTYCCKAVNDLGTVEIECKLEVKVIAQ
6958	274	1663	PRTSRVKTEGSGSSAMDFSVKVDIEKEVTCPICLELLTEPLSL DCGHSFCQACITAKIKESV IISRGESSCPVCQTRFPQGNLRPNR HLANIVERVKEVKMSPQEGQKRDVCEHHGKKLQIFCKEDGKVIC WVCELSQEHQGHQTFRINEVVKCEQEKQLVALQRLIKENQEAEX LEDDIRQERTAWKNYIQRQKILKGFNEMRVILDNEEQRELOK LEEGEVNVLDNLAAATDQLVQQRQDASTLISDLQRRLRGSSVEM LQDVIDVMKRSESWTLKKPKSVSKKLKSVFRVPDLSGMLQVLKE LTDVQYYWVDMNPGSATSNAISVDQROVKTVRTCTFKNSNP CDFSAFGVFGCQYFSSGKYWEVDVSGKIAWILGVHSHKISSLNK RKSSGFAFDPSVNYSKVYSRYRPQYGYWVIGLQNTCEYNAFEDS SSSDPKVLTLFMAV\LPVVVLGFS
6959	1	1469	SLVHVVEFGRGIEDFPYLFQQLTHCQQRICSVTQAGVQWCDHSS

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			LQPQTGFLNQSSHLSSLSSRDYRMLSSFNWFQDRFWLPPNVVT WTELEDGRVYPHPQDLLAALPLALVLLAMRLAFERFIGLPLS RWLGVRDQTRRQVKPNATLEKHFLTEGHRPKEPQLSLLAAQCGL TLQQTQRWFRRRNRQDRPQLTKKFCEASWRFLFYLSFVGGLSV LYHESWLWAPVMCWDYRPNQLTLSCPAADSEA\SLYWWYLLLELG FYLSLLIRLPFDVKKRGGGPPSSIKPRPHYDPPSTA\DFKEQVIH HFVAVILMTFSYSANLLRIGSLVLLHDSDDLLEACKMVNMQ YQQVCDALFLIFSFVFFYTRLVLFPTQILYTTYYESISNRGPF GYFFNGLLMLLQLLHVFWSCILRLMYSFMKKGQMEKDIRSDV EESDSSEAAAAQEPLQLKNGTAGGPRPAPTGGPRSRVAGRLTN RHTTAT
6960	387	2068	AKWAREKEMQEF\TRSF\RGPRDLSTLTHSTVRRRYLAHSGRS HLEPEEKQALKRLVVEEPLKMQVDEAASREDKLDLTKKGRPPT PCSDPERKRFNFSESESGSEASSPDYFGPPAKNGVASRSHTEP KEENPRRA\SKAVESSDEERQDLPQORGESESEEEKGYKKG TRKKPVVKQAPGKASVSRKQARESESESEAEVQRTAKKVEGN KGTSLKSESESESEELAQKKEQRESESESESESEDEEKGDWK PRTRSNRRKRSAREERSCKQKSQAKRLLDSDSEEEQKEAASSG DDSGRDREPPVQRKSEDRTQLKGGKRLSGSSEDESDSGKEPTA KGSRKMARLGSTSGEESDLEREVSDEAGGPGQGERKNRSSKKS SRKGRTRSSSSSDGSPEAKGKGAGSGRRGEDHPAVMRLKRYIR ACGAHRNYKKLLGSCSHKERLSILRAELEALGMKGTPLGKCR ALKEQREEAEEVASLDVANIISGSGRPRRTAWNPLGEAAPGGE LYRRTLDSDEERPRPAPPDWSHMRGISSDGESEN
6961	340	1646	RPWSSPTMKPNFSLRLRIFNLNCWGIPTLSKHRADRMRLGDFL NQESFDLALLEEVWSEQDFQVLRQKLSPTYPAHHFRSGIIGSG LCVFSKHPIQELTQHIYTLNGYPYMIHHGDWFSKAVGGLLVHL SGMVLNAYVTHLHAEYNRQKDIYLAHRVAQAWELAQFIHTSKK ADVLLCGDLNMHPEDLGCCLLKEWTGLHDAYLETRDFKGSEEG NTMVPKNCYVSQQLKFPFGVRIYVLYKAVSGFYISCKSPET TTGDPHRTPLSDHEALMATLFVRHSPQONPSSTHGP\AERS PL/MCVCLKEALDGSGLGMA\QARWWA\TFA\SYVIGLGL\LL LALLCVLAAGGGAGEAAILLWTPSVGLVLWAGAFYLFHVQEVNG LYRAQAELOHVLGRAREAQDLGPEPQLYALL\LGQOEGDRTKEQ
6962	340	1646	RPWSSPTMKPNFSLRLRIFNLNCWGIPTLSKHRADRMRLGDFL NQESFDLALLEEVWSEQDFQVLRQKLSPTYPAHHFRSGIIGSG LCVFSKHPIQELTQHIYTLNGYPYMIHHGDWFSKAVGGLLVHL SGMVLNAYVTHLHAEYNRQKDIYLAHRVAQAWELAQFIHTSKK ADVLLCGDLNMHPEDLGCCLLKEWTGLHDAYLETRDFKGSEEG NTMVPKNCYVSQQLKFPFGVRIYVLYKAVSGFYISCKSPET TTGDPHRTPLSDHEALMATLFVRHSPQONPSSTHGP\AERS PL/MCVCLKEALDGSGLGMA\QARWWA\TFA\SYVIGLGL\LL LALLCVLAAGGGAGEAAILLWTPSVGLVLWAGAFYLFHVQEVNG LYRAQAELOHVLGRAREAQDLGPEPQLYALL\LGQOEGDRTKEQ
6963	374	2618	RVTPLILKLLKKPKTAENQKASEENEITQPGSSAKPGLPCLNF EAVLSDDPALIHS\THSLTNSHAHTGSSDCDISCKGMTERIHSIN LHNFNSVLETLNEQRNRGHFCVTVRIHGSMLRAQRCVLAAGS PFFQDKLLLGYSIDIEIPSVVSQSVQKLIDFMYSGVLRVSQSEA LQILTAASILQIKTVIDECTRIVSQNVGDVFPQIDSGQDTPRG TPESGTSQSSDTESGYLQSHPOHSVDRIYSALYACSMQNGSGE RSFYSGAVVSHHETALGLPRDHMEDPSWITRIHRSQOMERYL STTPETTHCRKQPRPVRIQTLVGNIIHKQEMEDDYDYVQQRVQ ILERNESECTEDTDQAGTESEPKGESFDSGVSSSIGTEPDSV EQQFGPGAARDSQAEPQPEQAAEAPAEAGGPQTNQLETGASSPE RSNEVEMDSTVITVSNSSDKSVLQQPSVNTSICQPLPSTQLYLR QTETLTSNLRMPLTLTSNTQVIGTAGNTYLPALFTTQAGSGPK

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			PFLFSLPQPLAGQQTQFVTVSQPGLSTFTAQLPAPQPLASSAGH STASGQGEKKPYECLCNKTFTAKQNYVKHMFVHTGKPKHQCSI CWRSFSLKDYLIK\HMTHTGVRAVQCSICNKRFTQKSSLVNVM RLHRGKSYECYICKKKFSHKTLERHVALHSASNGTFFPAGTTP GARAGPPGVVACTEGTTYVCSVCPAKFDQIEQFNDHMRMHVSDG
6964	1	178	SGRPFPPFFSNTDVYFIKKVTNRWTAGSSYKMTMRKSIGKILL QIFIG\NCSMFVVI
6965	757	208	NVFIETRIQGFMTSAHPGQKHDFSMGLLFFLLAALEVCSGGS SGLSGYNLPQNH\GLLGRNTLVLLGQMRRISPFCLCKDRSDFRF PQEKVEVSQKQA\QAMSFYDVLQVFNFSHKALL\CCMEHDL PGFTPHFTSSAAGTPGDLGAGDGRRSWGQWVIEGSTLALRRY PQESISTLE
6966	820	1867	ITTAGVGRMPGCPGCGMAGPRLLFLTALALELLGRAGGSQP ALRSRGATACRLDNKESWGSALLGERLDTWICSLGSLMVG LSGVFPPLLVIPLMGMTMLRSEAGAWRLKQLLSFALGGLGNVFL HLLPEAWAYTCSASPGEGQSLQQQQQLGLWVIAGILTFALAEK /HVPQQGGGDQPGFPQRPCHCCRRQWRPLSGPAGCRARPRCR GP\DIKVSGLYNLLANTIDNFTHGLAVAASFVSKKIGLLTTMA ILLHEIPHEVGDFAILLRAGFDRWSAAKLQLSTALGGLGAGFA ICTQSPKGEVETAAWVLPFTSGGFLYIALVNVLPDLLEEDPW
6967	162	633	GFLPFKYWILDLSASSRMTDCNPMELSSMSGFEESSELNGFEG TDMKDMRLAEAAVNDVLFVNMNMFVSKSLRCADDVAYINVSTK ERNRYCLELTEAGLKVVGYAFDOVDDHLQTPYHETVYSLDLTL\ SPAYREAFGR\LLQRLALKRDGQS
6968	1	2265	RGCGGGRGGPGARERERPEPERTMEEAAGRGCFQPHPLQKT LEQFHLSSMSSLGPPAFSARWAQEAYKKESAKEAGAAVPAVP PAATEPPPVHLHPAIQPPPPVLPGPFFMPSDRSTERCETVLEGE TISCFVVGGEKRLCLPQILNSVLRDFSLOQINAVCDELHIYCSR CTADQLEILKVMGILPFSAPSCGLITKTDAERLCNALLYGGAYP PPCKKELAASLALGLELSERSVRVYHE\CFGKCKGL\LVPELYS SPSAACIQCLD\CRLMYPPHKFVVVSHKALENRTCHWGF\DSA\ NWRAYILLSQDYTGKEEQARLGR\CLDDVKEKFDYGNKYKRRVP RVSEPPASIRPKTDDTSSQSPAPSEKDKPSSWLRTLAGSSNKS LGCVHPQRQLSAFRPWSPAVSASEKELSPHLPALIRDSFYYSKS FETAVAPNVALAPPAQKQVVSPPCAAASVRAPEPLATCTQPRK RKLTVDTPGAPETLAPVAAPEEDKDSEAEVEVESREEFTSSLSS LSSPFTSSSSAKDLGSPGARALPSAVPDAAAPADAPSGLEAEL EHLRQALEGGLDTKAEKFLHEVVKMRVKQEEKLSAALQAKRS LHQELEFLRVAKKEKLREATEAKRNLKEIERLRAENKMKMEA NESRLRLKRELEQARQARVCDKGCEAGRLRAKYSQIEDLQVKL QHAEADREQLRADLLREREAREHLEK\VVK\ELQEQWPRARPE AAGSEG\AAELEP
6969	1855	118	AGTMHGRLLKVTSEEQAEAKRLEREQKLKLYQSATQAVFQKRQA GELDESVELTSQILGANPDFATLWNCRRVLLQLETKQSPPEEL AALVKAELGPLESCLRVNPKSYGTWHHRCLLGRLEPNWTRREL ELCARFLEVDERNFHCWDYRRFVATQAAVPPAEELAFDLSLITR NFSNYSSWHYRSCLLPQLHPQPDSPGQGRLPEDVLLKELELVQN AFFTDNDQSAWFYHRWLLGRADPDQALCLHVSREACTVTSF SRPLLVGSRMEILLMVDDSLIVEWRTPDGRNRP SHVWLCDL P AASLNDQLPQHTFRVIWTAGDVQKECVLLKGRQEGWCRDSTTDE QLFRCLESVKSTVLQSELESCKELQELENKWL\LTILLM RALDPLLYEKETLQYFQTLK\AWDPKRATY\LDDLRSKFLLENS VLKMEYAEVRVHLAHKDLTVLCHLEQLLVTHLDSHNRRLTL PFALAALRCLEDPPPRT\VLQASDNAIESLDGVTNLPRLQELL CNRLQQPAVLQPLASCPRLLVLLNLQGNPLCQAVGILEQLAELL PSVSSVLT

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6970	3	1528	SFFPLLSSPSAVGEGKVAVAAPCFGRSECARAKMAYTQLEPLNE GFLSRISGLLLCRWTCRHCCQKCYESSCCQSSSEDEVEILGPFPA QTPFWLMASRSSDKDGSVHTASEVPLTPRTNSPDGRRSSSDTS KSTYSLTRRISSLESRRPSSPLIDIKPIEFGVLSAKKEPIQPSV LRRTYNPDYFRKFEPHLYSLDSNSDDVDSLDEEILSKVQLGM LHFSTQYDLLHNLTVRVIEARDLPPPISHDGSQRQDMAHNSPYV KICLLPDQKNSKQTGVKRTQKPVFEERYTFEIPFLEAQRRTLL LTVVDFDKFSRHCVIGKVSVPCEVDLVKGGHWWKALIPSSQNE VELGELLLSLNYLPSAGRLNVDVIRAKQLLQTDVSSQSGDPFVKI QLVHGLKLVKTKTSFRLGTIDPFYNESFSPKVPQEELENASLV FTVFGHNMKSSNDFIGRIVIG\QYSSGP\SEPNHWRMLNTHRT AVEQWHSLSRAECDRVSPASLEVT
6971	37	3702	ACFYVPGSRSFKLIPRHGLVNMGRSGKLPQGVSAKLRKWKKGHS SDSNPAICRHRQAARSRRFSPRSGRDLTVDAVKLHNLQSGSL RLGKSEAPETPMEEAEVLTEKSSGTFLLSGLSDCTNVTFSKVQ RFWESNSAAHKEICAVLAAVTEVIRSQGKETETEFYFAALIRKA AQHGVCVSLKGSSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSK EATTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVTA CAMQAFHSLFHARFGLSTLSAELNAQIITALYDVVPSENDLQPL LAWLKVMEKAHINLVRQLQWDLGLGHLPRFFGTAVTCLLSPHSQV LTAATQSLKEILKECVAFHMDIGSVTSSASGPAQSVAKMFRAV EEGLTYKFHAANSSVLQLLCVFFEACGRQAHFVMRKCLQSLCDL RLSPHFPHTAALDQAVGAAVTSMGPEVVQAVPLEIDGSEETLD FPRSULLPVIRDHVQETRLGFFTTYFLPLANTLKSAMDLAQAG STVESKIYDTLQWQMTLLPGFCTRPDVAISFKGLARTLGMAI SERPDLRVTVQALRTLITKGCQAEADRAEVSRFAKNFLPILFN LYGQPVAAAGDTPAPRAVLETIRTITITDTQLVNSLLEKASEK VLDPASSDFTRLSVLDLVVALAPCADEAAISKLYSTIRPYLESK AHGVQKKAYRVLEEVCAAPQPGALFVQSHLEDLKKTLDSLSRS TSSPAKRPRLLKCLLHIVRKLASHEKEFITALIEVILCTKEVSV GARKNAFALLVEMGHAFIRFGSNQEEALQCYLVLIYPGLVGAVT MVSCILALTHLLFEFKGLMGTSTVEQLLENVCILLASRTDVS KSALGFIKVAVTVMVAHLAKHVQLVMEAGIKLSDDMRHFRMK LRNLFT\KFIPK\FGILTGWGKAVGPKYHRVLRVNRKARAK RHRALSQAABVEEEEEEEBEPAGQKGDSEIEILADSEDEEDNE EEERSRGKEQRKLARQSRRAWLKEGGDEPLNFDLPKVAQRVLA TQPGPGRGRKKDHSFKVSADGRLLIREADGNKMEEEGAKGED EEMADPMEDVIIRNKKHQLKHQKEABEELEIPPQYQAGSGGI HRPVAKKAMPGAEYKAKKAKGDVKKKGRPDYAYIPLNRSKLNR RICKMKLQGGQKGLVKAAQRGSQVGHKNRRKDRRP
6972	2179	973	PGGAILPLWRRTREPREATVPRGAQRGRARSAGRIIPSSQSPS PAEAGGATRSPPPPRPPARPPGPSAPPLLRSDAGPGATVSAAA AAATERARRGATMGAQLSTLGHMVLFPVWFLYSLMKLFQRSTP AITLESPIKYPLRLIDREIISHDTRFRFALPSQHILGLPVG QHIYLSARIDGNLVVRPYTFISSDDDKGFVDLVKIVYFKDTHPK FPAGKMSQYLESQIGDTIEFRGPSGLLVYQGGKGFAPRPDKK SNPIIRTVKSVMGMIAGGTGITPMLQVIRAIMKDPDDHTVCHLLP ANQTEKDILLRPELEELRNKHSARFKLWYTLDRAPFANDYGGQ\ FVNBEIMIRDHLPPPE\EEPLVLMCGPPPMIYQACLPNL\DHVGH PTERCVF
6973	1	1964	LQPRCAHRLRAQKCGRFAPGV DAMVLCPIVIGKLLHKRVVLSA SPRRQEILSNAGLRFVVPVSKFEKLDKASFATPYGYAMETAKQ KALEVANRLYQKDLRAPDVVIGADTIVTVGGLILEKPVDKQDAY RMLSRFE/SGREHSVFTGVAIVHCSSKDHQLDTRVSEFYETKV KFSELSEELLWEYVHSGEPMDKAGGYGIALGGMVSVHGDFL NVVGFPLNHFCQKLVKLYYPPRPEDLRRSVKHSIPAADTFEDL

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			SDVEGGGSEPTQRDAGSRDEKAEAGEAGQATAEAECHRTRETLP PFPTRLLELIEGFMLSKGLLTACKLKVFLLKDEAPQKAADIAS KVDASACGMERLLDICAAMGLEKTEQGYSENTETANVYLASDGE YSLHGFIMHNDLTWNLFYLEFAIREGTNQHHRALGKKAEDLF QDAYYQSPETRLRFMRAMHGMTKLTAQVATAFNLSRFSSACDV GGCTGALARELAREYPRMQVTVFDDLPDIIELAHFQPPGPQAVQ IHFAAGDFRDLPSAELYVLCRILHDWDDKVHKLSSRVAES KPGAGLLLVETLLDEEKRAVQALMQSLNMLVQTEGKERSLGEY QCLLELHGFHQVQVHLGGVLDAIL\PPKWPEAQAACSL
6974	3082	2172	RSCAASFASFARFPLELFAFPGSHRSPPGRGVATSAQCALSVRK LLAARPGLGTKYQATMVYKTLFALCILTAGWRVQSLPTAPLSV SLPTNIVPPTTIWTSPPQNTDADTASPSNGTHNNSVLPVTASAP TSLLPKNISIESREEEITSPGSNWEGTNTDPSPSGFSSTSGGVH LTTTLEHSLGTPEAGVAATLSQSAEPTLISPOAPASSPSSL STSPPEVFSASVTNHSSTVTSTQPTGAPTAPESPTRESSDHT PTSHATAEPVPOEKTPTTTSVGKVMCELIDMET\PPPPPG
6975	2	500	RPRPTVHCCKWALKLETAMETLINVFHAHSGKEGDKYKLSKKEL KELLQTELSGFLDVKELML*ATEALKTFEEA*KSPIIQCSSRS SLPPADQPPPYL*LSAVPPIHLPLPLPPQAQKDVDAVDKVMK BLDENGDEVDQFQYVVLVAALTVA CNFFWENS
6976	1216	970	GCQL*VAYGTENSEFVTFAHFPEDTVEQKAESVGRIMPHTEAR I MNMEAGTLAKLNTPEGLCIRGYCVMLGYWGEPPQKTEEAVDQDKW YWTGDVATMNEQGFCKIVGRSKDMIIRGGENIYPAELEDFHHT EKVQEVQVGVKDDRMGEEICACIRLKDGRETTVEEIKAFCKGK ISHFKIPKYIVFVTNYPLTISGKIQKFKLRQMERHNL*IKQQ ACPGRLA
6977	1298	588	SLFINTNLLSNQIRKTSFGMCSEPISDNTEDQKGLKTPDFA*R ANKSKHHVNGNRTVEPFPEGTQMAVFGMGCFWGAERKFWVLKG VYSTQVGFAGGYTSNPTYKEVCSEKTHAEVVRVYQPEHMSFE ELLKVFWENHDPQGMRGNDHGTYQYRSATYPTSAKQMEALSS KENYQKVLSEHGFGPIITTDIREGQTFYYAEDYHQVLSKNPNGY CGLGGTGVS CPVGIKK
6978	3	242	SPFPRDSRRCGCKGSSLRHTAVAMVKLSKEAKQRLQQLFKGSQ FAIRWGFIPLVLYLGFGRGADPGMPEPTVLSLLWG
6979	3917	1146	DEARVRGEAVAAAILSRCHWSGPPPPPPSPDRKGLRGTEPWE AGPGSGATPGARAMDVRLKVNELREELQRRGLDTRGLKTELAE RLQAALAEAEPPDERELDADDEPGRPGHINEEVETEGGSELEGT AQPPPPGLQPHAEPPGGYSGPDGHYAMDNI TRQNQFYDTQVIKQE NESGYERRPLEMEQQQAYRPEMKTEMKQCAPTSFLPPEASQLKP DRQQFQSRKRPYEENRGRGYFEHREDRRGRSPQPPAEDEDDFD DTLVAIDTYNCDLHFKVARDRSSGYPLTIEGFAYLNSGARASYG VRRGRVCFEMKINERISVKHLPSTEPDHPVVRIGWSLDSCTQL GEEPFSGYGGTGKKS TNSRFENYGDKFAENDVIGCFADFECGN DVELSFTKNGKWMGIAFRIOKEALGGQALYPHVLVQNC AVEFNF GQRAEPPYCSVLPGFTFIQHLPLSERIRGTVGPKSKAECEILMMV GLPAAGKTTWAIKHAASNPSKKYNILGTNAIMDKMRVMGLRRQR NYAGRWDVLIQATQCLNRLIQIAARKKRN YILDQTNVYGSQAR RKMRPFEGFQRKAIVICPTDEDLKDRTIKRTDEEGKDVPDHA VL EMKANFTLPDVGDFLDEVLFIELQREADKLVRQYNEEGRKAGP PPEKRFDNRRGGGFRGRGGGGGFRQYENRGGPPGGNRGGFQNRGG GSGGGGNYRGGFNRRSGGGGYSQNRWGNNNRDNNSNNRGSYNRA PQQQPPPPQPPPPQPPPPQPPPPSYSPARNPPGASTYNKNSNI PGSSANTSTFTVSSYSPPQSGFFFPSTFQPSYSQPPYNQGGYSQ GYTAPPPPPPPPAYNYSYGGYNPA YTPPPPTAQTYPPQPSY NQVQQYQAQWNQYQNGQWPPYQYNYDYGSYSGNTQGGTSTQ GTRGRKTGRVAAPSTRRTGNMQLQTRSPAMLSDFGLGYHPT
6980	1	420	

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			CWTLRWPPPLCSLHALHVFHCLFSSRLGTVPSPRLAMDPNCSCEA GGSCACAGSCKCKCKCTSCCKSCCSCPLGCAKCAQCICKGA SEKSCCA
6981	10	1054	PGRGFRRASLRPAFAARGVFQGGGLGQAKQARTRACAALPTPHPS APRLLEPQGVFLFPFPPGWPWNMLTKAQYDEIAQCLVSVPT RQSLRKLKQRFPSQSQATLLSIFSQEYQKHKRTHAKHTSEAI ESYQRYLNGVVKNGAAPVLLDLANEVDYAPSLMARLILERFLQ EHEETPPSKSIINSMRLRDPISQIPDGVLANQVYQCIVNDCCVGPL VDCIKHAIGHEHEVLLRDLLLEKNLSFLDEDLQRAKGYDKTPDF ILQVPVAVEGHIHIESKASFGDECSHHAYLHDQFWSYWNRF PGLVIYWGFIQELDCNRERGILLKACFPNTIVTLCHSIA
6982	153	1285	FPQDCSAPAAPGLAGSEPRRLRAYRRRQRARGLKRVAWLAPP PSLLQGLQGWAAQAPVDGTLGPEDSRASSPMIQNSRPSLLQPDV GDTVETLMLHPVIAKFLCGSISGTCSTLLFQPLDLLKTRQLTLQ PSDHGSRRLVGLAVLLKVVRTESLLGLWKGMSPSIVRCVPGVGI YFGTLYSLKQYFLRGHPPTALESVMLGVGSRVAGVCMSPITVI KTRYESGKYGESIYAALRSIVHSEHGRGLFSGLTATLLRDAPF SGIYLMFYNTKNIVPHDQVDATLIPITNFSGIFAGILASLVT QPADVIKTHMQLYPLKFQWIGQAVTLIFKDYGLRGFFQGGIPRA LRRTLMAAMAWTVVEEMAKMGLKS
6983	82	773	EMSFLQDPSFFTMGWNSIGAGALGAALALLANTDVFSLSKPQK AALEYLEDIDLKLEKEPRTFKAKELWEKNGAVIMAVRRPGCFL CREEAADLSLKSMLDQLGVPLYAVVKEHIRTVEKDFQPYFKGE IFLDEKKKFYGPQRRKMMFMGIFRLGVWYNFFRAWNGGFSGNLE GEGFLLGGFVVGSGKGILLHREKEFGDKVNLLSVLEAAKMI KPQTLASEKK
6984	1845	1282	GGRSAYSLPAGSLFRVPATAAAKMASGVQVADEVCRIFYDMKVR KCSTPEEIKRKKKAVIFCLSDAKKCIIVEEGKEILVGDVGVTIT DPFKHFVGMPLPEKDCRYALYDASFETKESRKEELMFFLWAPELA PLKSKMIYASSKDAIKKFKQGIKHECQANGPEDLNACIAEKL GSLIVAFEGCPV
6985	1887	1324	RRTAGIYPCFPKPGRTRHALCSVVLLLLTGQALFDDFQESCAMM WQKYAGSRRSMPLGARILFHGVFYAGGFAIVVYLQKFHRSALY YKLAVEQLQSHPEAQEALGPLNIHYLKLIDRENFDIVDAKLK IPVSGSKSEGLLYVHSSRGGPFQRWHLDEVFLELKDQQIPVFK LSGENGDEVKKE
6986	642	1350	YHLYFFKMGDPNSRKKQALNRLRAQLRKKKESLADQDFPKMYIAF VFKEKKKKSALFEVSEVIVMTNNEYENILKGVDRSSYSLESSL ELLQKDVVLHAPRVQSMRRDVIGCTQEMDFILWPRNDIEKIVC LLFSRWKESDEPFRPVQAKFEFHGDYEQFLHVLRSRDKTGIV VNNPNQSVFLFIDRQHLQTPKNKATIFKLCSICLYLPQEQILTHW AVGTIEDHLRPMPE
6987	1623	341	LEAAEKASRAFKESQRQTDSKNYETENWSPOKSQRDYDMYNTAC FLGEIEVGLYTIQILQLTFFHKNELSKKHMVQFLSGKWTIPP DPRNECYLALS KFTSHLKNLQSDLKRCDFDFIDYVLLKMYTQ KETAEIMLSKKVSRCFRKYTELFCFLDPCLLQSKESQLLQBEENC RKKLEALRADRFAGLLEYLNPYKDATTMESIVNEYAFLQONS KKPMTNEKQNSILANTIILSCLKPNKLIQPLTLKKQLREVLFQ VGLSHQYPGPYFLACLFEPENQELDQDSKLEKYVSSLNRSFR GOYKRMCRSKQASTLFYLGKXKGLNSIVHAKIEQYFDKAQNTN SLWHSBGDVVKKNEVKDLLRRLTGQAEGLISVEYGTTEEKIPV ISVYSGPLRSGRNIERSFYLGFSIEGPPGL
6988	3	689	TQLLRPAVFGSAASGIRSLGWSASSGHWCAAGRAHAFVPR LVRLGAASTAAPQDAQTGPQMPRADCIMRHLPIYFCRGQVVRG FGRGSKQLGIPTANFPEQVVDNLPADISTGIYGWASVSGSDVH KMVVSIGWNPYYKNTKSMETHIMHTFKEDFYGEILNVAIVGYL

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			RPEKNFDSLESLSAISAIQGDIEEAKRRLLEPEHLKIKEDNFFQVS KSKIMNGH
6989	2	1118	LMPSDRPLSPSTHASAGSHCHAPPTARRAFFIPFGSKSNMATL KDQLIYNLLKEEQTPQNKITVVGAVGMACAISILMKDLADEL ALVDVIEDKLKGEMMDLQHGSLFLRTPKIVSGKDYNTANSKLV IITAGARQQEGESRLNLVQRNVNIFKFIIIPNVVKYSPNCKLLIV SNPVDILTIVVANKISGFPPKNRVIGSGCNLDSARFRLMGERLGV HPLSCHGWVLGEHGDSSVPVWVGSMNVAGVSLKTLHPDLGTOKDK EQWKEVHKQVVESEYEVIKLKGYSWAIGLSVADLAESIMKNLR RVHPVSTMIKGLYGIKDDVFLSVPCILGQNGISDLVKVTLTSEE EARLKKSADTLWGIQKELQF
6990	719	258	THASGMASVVLALRTRTAVTSLLSPTPALAVRYASKKSGGSS KNLGGKSSGRRQGIKKMEGHYVHAGNIIATQRHFRWHPGAHVGV GKMKCLYALEEGIVRYTKEVYVPHPRNTEAVDLITRLPKGAVLY KTFVHVVPAPKEGTFKLVAL
6991	169	451	RRSSDFHNPGLSRPVSLENIHHQVICSTKNRRNPCKTAYLL SLLMTNLPNESTENQPVDAWAFITLQDEFLTYACVEGTCLCF CGRHVH
6992	941	510	RQAPGCSLALRQVRQVYCGLVRAFPVQTRPLSSRFVERRGALY RSPMNQENPPYPGPGPTAPYPPYPQPMGPGMGPPYPPQGY PYQGYQYQGWQGGQPEPPKTTVYVVEDQRRDELGPSTCLTACWT ALCCCLWDMLT
6993	1	374	QWCVTCPQHNRQGPAPVPPGIQAYGAAPFEDLQVDFTEMKCRG DRVWIKNWNVASLCPWLKGPQTVVLSPPTAVKVEGIPAWIHSH VKPAARETWEARPSPDNPFVTLKKTTSAPVTPGS
6994	346	1100	QWPEKDFVMAASSISSPWGKHVFKAJLMVLVALILLHSALQSR RDFAPPQQKREAPVDVLTQIGRSVRGTLDAWIGPETMHLVSES SSQVLWAISSAISVAFFALSIAAQLLNALGLAGDYLAQGLKLS PGQVQTFLLWGAGALVVYLLSLLGLVLALLGRILWGLKLVIF LAGFVALMRSVPDPSTRALLLLALLILYALLSRLTGSRASGAQL EAKVRGLERQVEELRWRQRRAAKARSVEEE
6995	144	1346	GSVAVGLSGIMAAQKDLWDAIVIGAGTQCFTAYHLAKHRKRIL LLEQFFLPHSRGSSHGQSRIIRKAYLEDFYTRMHCECYIWAQL EHBAGTQLHRQTGLLLGMKENQELKTIQANLSRQRVEHQCLSS EELKQRFNIRLPRGEVGLLDNNGGVIYAYKALRALQDAIRQLG GIVRDGEKVVEINPGLLVTVKTTSRSYQAKSLVITAGPWTNQLL RPLGIEMPLQTLRINVCYWRMVPGSYGVSAFPCFLWLGLCPH HIYGLPTGEYPGLMKVSYHHCNHADPEERDCPTARTDIGDVQIL SSFVRDHLPLDKPEPAVIESCMYTNTPDEQFILDHFKYDNIVI GAGFSGHGFKLAPVVGKILYELSMKLTPSYDLAPFRISRFPSLG KAIL
6996	543	1942	ETANAEEAARKSAMDWKEVLRRRLATPNTCPNKKKSEQELKDEE MDLFTKYSEWKGGRKNTNEFYKTIIPFYRLPAENEVLLQKLR EESRAVFLQRKSRELLDNEELQNLWFLLDKHQTTPMIGEAMIN YENFLKVGKAGAKCKQFFAKVFAKLLHTDSYGRISIMQFFNY VMKVKWLHQTRIGLSLYDVAGQGYLRESDLNYILELITPLPOL DGLEKSFYSFYVCTAVRKFFFLDPLRTGKIKIQDILACSFLDD LLELRDEELSKESQETNWFSAAPSALRVYGGYVNLKDHNGMLSK EELSRYGTATMTNVFLDRVFQECITYDGEMDYKTYLDFVLALEN RKEPAALQYIFKLLDIENKGYLVNVSFRAIQELMKIHGQD PVSFQDVKDEIFDMVKPKDPLKISLQDLINSQGDVTVTILIDL NGFWTYENREALVANDSENSADLDDT
6997	370	1104	AMELTIFILRLATYILTFPLYLLNFLGLWSWICKKWPPYFLVRF TVIYNEQMASKKRELFSNLQEFAGPSGKLSLLEVCGGTGANFKF YPPGCRVTCIDPNPNFEKFLIKSLAENRHLQFERFVVAAGENMH

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			QVADGSVDVVVCTLVLCVSKQERILREVCRVLRPGGAFYFMEH VAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASF LKLQHIQAPLSWELVRPHIYGYAVK
6998	2	616	FVSRALLRVRSRRHPAERAAAPGRPEADPTCEPGATNCPPELWC SHLPVPYAPPTMESRGKSASSPKPDTKVPQVTTAEAKVPPAADGK APLTKPSKKKAPAEKQPPAAPTAPAKTSAKADPALNNHNS LKPAPTVPSSPDATPEPKPGDGAEEDEAASGGPGGRGPWSCEN FNPLLVAAGGVAAIAIALILGVAFLVRKK
6999	14	1591	GRAGACSRRTAMSIETIESSDVIRLIMOYLKENSILHRAATLQ ETTIVSLNTVDSIESFVADINSGHWDTVLQAIQSLKLPDKTLIDL YEQVLELIELRELGAARSLRQTDPMIMLKQTOPERYIHLENL LARSYFDPREAYPDGSSKEKRAAIAQALAGEVSVVPPSRLMAL LGQALKWQHQGLPPGMTIDLFRGKAADVDEEEKFPTQLSRH IKFGQKSHVECARFSPDGQYLVGTGSDGFIENVNFTTGKIRKDL KYQAQDNFMMDDAVLCMCFSRDTEMLATGAQDGKIKVWKIQSG QCLRRFERAHSKGVTCLSFSKDSQILSASFDQTIRIHGLKSGK TLKEFRGHSSFVNEATFTQDGHYIISASSDGTVKIWNMKTTECS NTFKSLGSTAGTDITVNSVILLKPNPEHFVVCNRSNTVVIMNMQ GQIVRSFSSGKREGGDFVCCALSPRGEWIYCVGEDFVLYCFSTV TGKLERLTIVHEKDVIGIAHHPQNLIAITYSEDGLLKLWKP
7000	2	827	GGPVVFLMESEGGPESERSEFFSQRENEEEEAQEPETGFP KNPLLQPALTDGVEGLQKIFEDPENPHHEQAMQLLEEDIVGRN LLYAACMAGQSDVIRALAKYGVNLNEKTTTGYTLHLHCAAAGRL ETLKALVELDVIDEALNFREERARDVAARYSQTECFEFLWDADA RLTLKKYIAKVSLAVTDEKSGKLLKEDKNTILSACRAKNEWL ETHTEASINELFEQROLEDIVTPIFTKMTTPCQVKSASVTS DQKRSQDDTSN
7001	2056	844	RRCLIIAFLKGCFFIYFIFIFETEFLLSCCPGWSAVAQSRILAN FASQVQAIFILPKDSQVGPDKSEAPKRALYESVFGSGEICGP TSFKRLCIRPSEPVDVAVVSVKHDPLPLPEANGHRSTNSPTI VSPAIVSTQDSRPNMSRPLITRSPASPLNNQGIPTPAQLTKSN APVHIDVGGHMYTSSLATLTYPESRIGRLFDGTEPIVLDLQKQ HYFIDRDQGMFRYILNFLRTSKLLIPDDFKDYTLLEYEAKYFQL QPMLEMERWKQDRETGRFSRPECCLVVRVAPDLGERITLSGDK SLIEEVFPFEGDVMCNSVNAGWNHDSHVIRFPLNGYCHLNSVQ VLERLQQRGFEIVGSCGGGVDSQFSEYVLRRELARTPRVPSVI RIKQEPDL
7002	1043	498	PMPSSSTRWTTST*TYTDTSSAWACRPTTGTCT*TAAPGPTVRWWP TPCSRHQSRRLTWCWCTSRPCGR*GGLCVRTAPTRPTTSASSS SWTSAGTSPAGRRRTGTATSGTATTSVWPGCGTRMWSTQWSSV PRSRSCCSRPAATTPPSKPGAPHAPCASSRHLAHLAPSSPGLPA RGAEVC
7003	818	61	QGRFRAFCWQRDFLQPPGMRLSALLALASKVTLPPHYRYGMSFP GSVADKRKNPFWIRRRPVVVEPISDEDWYLFCDTVEILEGKDA GKQGVVQVIRQRNWVVVGGNLNTHYRIGKTMIDYRGTMIPSEAP LLHRQVKLVDPMDRKPTEIWRFTAGERVVRVSTRSGRIIPKPE FPRADGIVPETWIDGPKDTSVEDALERTYVPCCLKTLQEEVMEAM GIKETR\NTRRSIGIEPGAQQLLPNFCPSLEG
7004	121	2285	FLLPVLTSSRLQPAVPHARLGGVEPAAMKSARAKTPRKPTVKK G\PKRTLKTQLG/YICRVRLPGFPDQECCEIVINNTTVQLHTPE GYRLNRNGDYKETQYSFKQVFGTHHTQKELFDVVANPLVNDLIH GKNGLLFTYGVGTSGKTHMTGSPGEGGLLPRCLDMIFNSIGSF QAKRYVFKSNDRNSMDIQCEVDALLERQKREAMPNPKTSSSKRQ VDPEFADMITVQEFCKABEVEDSDVYGVFVSVYIEIYNNYIYD EEVFPDPINPNLHNLNCFVKIKNNMYVAGCTEVEVKSTEBAFE VFWRGQKKRIANTHLNRESSRSHSVFNIKLVAPLDADGDNVL

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			QEKEQITISQLSLVDLAGSERTNRTAEGRNRLREAGNINQSLMT LRTCMDVLRNOMYGTNKMVPYRDSKLTFLPKNYFDGEGKVRMI VCVNPKAEDYEENLQVMRFAEVTQEVEVARPDKAICGLTPGRR YRNQPRGP\IGNEPLVTDVVLQSFPLPSCEILDINDEQTLRL IEALEKRHNLRQMMIDEFNKQSNAPKALLQEFDNAVLSKENHMQ GKLNKEKMISGQKLEIERLEKKNKTLEBYKIELEKTTIYEED KRNLLQCELETQNKQLRQFSDKRRLEARLQGMVTETTMKWEKRC ERRVAAKQLEMONKLVVWDEKLLKQKAIIVTEPKTEKPERPSRER DREKVTQRSVSPSPVPSYL
7005	63	876	RNMALYQWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEEL WAAQVKRLASMAQKEPTIKISLPGGQKIDAVAWNTTPYQLARQ ISSTLADTAVAAQVNGEPYDLERPLETDSDLRFLTDFSPEGKAV FWHSSTHVLGAAAEQFLGAVLCRGPSTEYGFYHDFLKGKERTIR GSELPVLERICQELTAAARPFRRLEASRDQLRQLFKDNPPFKLHL IEEKVTGPTATVYGCGLTLDLCCGPHLRHTGQIGGLKLSNSSS LWRSSG
7006	22	898	NAFGRHSTAVKMAAAWLQVLPVILLLLGAHPSPLSFFSAGPAT VAAADRSKWHPIPSGKNYFSFGKILFRNTTIFLKFDPGECDSL LNTITWYLSADCYNETIYNFKAEEVELYLEKLEKRGSLGKYQTS SKLFQNCSELFKQTTFSGDFMHLRPLLGKQKQAKENGNTLTFIG DKTAMHEPLQTWDAPYIFIVHIGISSKSSKENSLSNLFMT VEVKGPYELTLEDYPLMIFFMVMCIYVLFGLVNLWASACYWR DLLRIQFWIGAVIFLGMLEKAVFYAGFQ
7007	2	1001	AMTVSGPGTPEPRPATPGASSVEQLRKEGNEFLFKCGDYGGALAA YTQALGLDAPQDQAVLHRNRAACHLKLEDYDKAETEASKAIEK DGGDVKALYRRSQALEKLRGLDQAVLDLQRCVSLPKNVFOEA LRNIGGQIQEKVRYMSSDQAKVEQMFQILLDPEEKGTTEKKQKAS QNLVVLAREDAEAKIFRSNGVQLLQRLDMGETDMLAALRTL VGICSEHQSRVATLSILGTRRVVSLGVESQAVSLAACHLLQV MFDALKEGVKKGFRGKEGAIIVGENKQVWGLLDVTVMMEGMLSQ PGQFFGDQTCSCRLFGIRFGDIILL
7008	70	1478	CRSALGHERPPPAHLFAGCRRRLQTCPRSCRWLGRPPSGLPPGPR SPPPLAGPGQKMVQKPAELQGFHRSFKGQNPFFELAFSLDQPDH GDSDFGLQCSARPMPASQPIDIPDAKRGKKKRGRATDSFSG RFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIEKQPGH IRSRVFREVMELYQCQGHNVLELIEFFEEEDRFYLVFEKMRGG SILSHIHKRRHFNELEASVVVDVASALDFLHNKGIAHRDLKPE NILCEHPNQVSPVKICDFDLGSGIKLNGDCSPISTPELLTPCGS AEYMAPEVVEAFSEESIYDKRCDLWSLGVTLVILLSGYPPFVG RCGSDCGWDRGEACFACQNMFLFESIQEGKYEFPDKDWAHISCAA KDLISKLLVRDAKQRLSAAQVLQHPVWQGCAPENTLPTPMVLQR WDSHFLPPHPCRIHVRPGLVVRTVTVNE
7009	1	626	ARQLRNSWVDDFVAAPLIPLSQQIPTGNSLYESYYKQVDPAYTG RVGASEAALFLKKSGLSDIILGKIWDLADPEGKGFLLDKQGFYVA LRLVACAQSGHEVTLSNLSMPPPKFHDTSFPLMVTTPPSAEAH WAVRVEEKAKPDGIFESLLPINGLLSGDKVPVLMNSKLPDVL GRVWDLSDIDKDGHLVRDEFAMHLVYRALE
7010	79	571	SHTRRAVVPETLLSPLCPLLGCGGTAMSGGEQKPERYYVGVDTGT GSVRAALVDQSGVLLAFADQPIKNWEPQFNHHEQSSEDIWAAAC VVTKKVVQGIIDLNIQIRGLGFATCSLVVLDKQFHLPLVNOEGDS HRNVIMWLDHRAVSQVNRINETKHSVLQYVGG
7011	3	994	RIQTLNQNQSQTQPLLKTPPAVLQPIAPQTFGVQTOPQPOS LQAQISAASITPLLOTQPPQLLQPPQKAGLLQPPVRIVSQPPQ ARRLDPPSRFSGRNDRGDQVPRKDDRSRERERRRRSRERSPO RKRSRERSRPRRERSRPRVRRVVPRTVQFSKFLDCPSCDMM ELRRRYQNLXIPSDFFDAQFTWDAFPLSRFPQGNYCNYFVMMH

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			REVESLEKNMMAILDPPADHLYSAKVMMLASPSMEDLYHKSCAL AEDPQSLRDGFOHPARLVKFLVGMKKGDEAMAIGGHWSPLDGP DPEKDPVLIKT\AIRCCKALTG
7012	1	2661	RRAGSVKRGEARLFGPTERQSERPLRPSAARRPEMLSGKKAAAA AAAAAAATGTEAGPGTAGGSENGSEVAAQAGLSGPAEVGPGA VGERTPRKKEPPRASPPGGLAEPGSGAGPQAGPTVVGSAATPME TGIAETPEG\RTSRKRKRAKVEYREMDLANLSEDEYYSEER NAKAEKEKKLPPPPQAPPEEENESEPEEPGVEGAFAQSRLPH DRMTSQEAACFPDIISGPQQTQKVFLFIRNRTLQWLNDNPKIQ TFEATLQQLLEAPYNSDTVLVHRVHSYLERHGLINFGIYKRIKPL PTKKTGKVIIGSGVSGLAARQLQSFQMDVTLLEARDRVGGRV ATFRKGNVYADLGAMVVTGLGGMNAVVSQVNMELAKIKQKCP LYEANGQAVPKEKDEMVEQEFNRLLEATSYLSHQLDNFVNLNKP VSLGQALEVVIQLQEKHKVDEQIEHWKKIVKTQEELKELNKMV NLKEKIKELHQYKEASEVKKPRDITAEFLVKSXKRDLTALCKE YDELAETQGLLEKLOLEANPPSDVYLSRDRQILDWHFANLE FANATPLSTLSLKHWDQDDDEFTGSHLTVRNGYSCVPVALAEG LDIKLNTAVRQVRYTASGCEVIAVNRSTSTQTFYKCDVAVLCTL PLGVLKQPPAVQFVPLPEWKTSAVQRMGFGNLNKKVLCFDRV FWDPSVNLFGHVGSTTASRGELFLFWNLKAPILLALVAGEAAG IMENISDDVIVGRCLAILEKIFGSSAVPQPKETVVSRRADPWA RGSYSYVAAGSSGNDYDLMAQFITPGPSIPGAPQPIPRLFFAGE HTIRNYPATVHGALLSGLREAGRIADQFLGAMTYLPRQATPGVP AQQSFSM
7013	1	2661	RRAGSVKRGEARLFGPTERQSERPLRPSAARRPEMLSGKKAAAA AAAAAAATGTEAGPGTAGGSENGSEVAAQAGLSGPAEVGPGA VGERTPRKKEPPRASPPGGLAEPGSGAGPQAGPTVVGSAATPME TGIAETPEG\RTSRKRKRAKVEYREMDLANLSEDEYYSEER NAKAEKEKKLPPPPQAPPEEENESEPEEPGVEGAFAQSRLPH DRMTSQEAACFPDIISGPQQTQKVFLFIRNRTLQWLNDNPKIQ TFEATLQQLLEAPYNSDTVLVHRVHSYLERHGLINFGIYKRIKPL PTKKTGKVIIGSGVSGLAARQLQSFQMDVTLLEARDRVGGRV ATFRKGNVYADLGAMVVTGLGGMNAVVSQVNMELAKIKQKCP LYEANGQAVPKEKDEMVEQEFNRLLEATSYLSHQLDNFVNLNKP VSLGQALEVVIQLQEKHKVDEQIEHWKKIVKTQEELKELNKMV NLKEKIKELHQYKEASEVKKPRDITAEFLVKSXKRDLTALCKE YDELAETQGLLEKLOLEANPPSDVYLSRDRQILDWHFANLE FANATPLSTLSLKHWDQDDDEFTGSHLTVRNGYSCVPVALAEG LDIKLNTAVRQVRYTASGCEVIAVNRSTSTQTFYKCDVAVLCTL PLGVLKQPPAVQFVPLPEWKTSAVQRMGFGNLNKKVLCFDRV FWDPSVNLFGHVGSTTASRGELFLFWNLKAPILLALVAGEAAG IMENISDDVIVGRCLAILEKIFGSSAVPQPKETVVSRRADPWA RGSYSYVAAGSSGNDYDLMAQFITPGPSIPGAPQPIPRLFFAGE HTIRNYPATVHGALLSGLREAGRIADQFLGAMTYLPRQATPGVP AQQSFSM
7014	3	3950	DVEVGDKIRILATLEDGWLESSLKGRGTGIFPYRFVLCEDTRVE ETMALPQEGSLARIPETSLDCLNTLGVEEQRHETSDEABEPD CIISEAPTSPLGHLTSEYDTRNSYQDEDTAGGPPRSPGVWEM PLATDSPTSDPTEVVNGISSQPVFFHNLQKSQYYSVGGSH HSEQYFDLLPLEARTRDYASLPPKRMYSQKLTQKPVLPYLRGS SVSASRVVKPRQSSPQLHNLASYTKKHHTSSVYSISERLEMKPG PQAQGLVMEATHSQGDGSTDLSKLTQQLIEFEKSLAGPGTEP DKILRHFSIMDFNSEKDIVRGSSKLITEQELPERKALRPPPPR PCTPVSTSPHLLVDQNLKPAPPLVVRPSRPAFLPPSAQQRNAV SPKLLSRHRPTCETLEKEGPGHMGRLDQTSFCPLVLVRIEME RDLDMSYRAQEELNLMLEEKQDESSRAETLEDLKFCESNIESLN

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			MELQQLREMTLLSSQSSSLVAPSGSVSAENPEORMLEKRAKIVIE ELLQTERDYIRDLEMCIERIMVPMQQAQVFNIDFEGLFQGNMQMV IKVSKQLLAALAEISDAVGPFVLGHRDELEGTYKIYQCNHDEAIA LLEIYEKDEKIQKHLQDSLADLKS LYNEWGCTNYINLGSFLIKP VQRVMRYPLLLMELLNSTPESHDPKVPILTNAVLAKEINVININE YKRRKDLVLKYRKGDEDSLMEKISKLNHISI IKKSNRVSSHLLKH LTGFAPQIKDEVFEETEKNFMRQERLIKSFIRDLSLYLQHIRES ACVKVVAVSMWDVCMERGHRLDLEQFERVHYISDQLFNTFKER TERLVISPLNQLLSMFTGPHKLVQKRFDKLLDFYNCTERAELK DKKTLEELQSARNNYEALNAQLLDELDPKFHQYAQGLFTNCVHGY AEAHCDVFHQALEQLKPLLSLLKVAGREGNLIATFHEEHSRLVQ QLQVFTFFPESLPATKKPFERKTIDRQSARKPLGLPSYMLQSE ELRASLLARYPPEKLFQAERNFNAAQDLDSLEGLDVGVIKKK DPMGSQNRWLIDNGVTGKFVYSSFLKPYNPRRSHSDASVGS TESEHGSSSPRFRQNSGSTLTFFNP\ S\MAVSFTSGSCQKQPO DASPPPKWDQGTLSASLNPSNSESPPSRCPSPDPSTSQPRSGD SADVARDVKQPTATPRSYRNFHPEIVGYSVPGRNGQSDLVKG CARTAQAPEDRSTEPDGEAEQNGVYFAVYTFKARNPNELSVSA NQKCLKILEPKDVTGNTWLLAEVNGKKGYPSPNYIRKTEYT
7015	1842	513	RQAWHE\VAAPSWRGARLVQSVLRVWQVGHVAREVTFPSSLL GFQRCVSCVAGSAFSGPRLASASRNGQSSALDHFLGFSQPD SVTPCPVAVSMNRDEQDVLVHHPDMPNSRVLRVVLGAPNAG KSTLSNQLGRKVFVSRKVHTTRCOALGVITEKETOVILLDTP GIISPGKQRHHLLESLLEDPWKSMESADLVVVLVDVSDKWTNR QLSPQLRLCLTKYSQIPSVLVMNKVDCLKQKSVLLELTAALTEG VVNGKKLKMRAAFHSHBPTHCPSPAVKDPNTQSVGNPQRIGWPH FKEIFMLSALSQEDVTKLQYLLTQAQPGPWEYHSAVLTSQTP ETCANIIREKLEHLPEQVYPNVQKTAVWEEGPGGELVVIQKQL LVPKESYVKLLIGPKGHVISQIAQEBAGHDLMDIFLCDVDIRLSV KLLK
7016	167	2513	ILNAPKPPPPRDSVEAVAARDTGGGSGWTGMDVSGQETDWRST AFRQKLVSQIEDAMRKAGVAHSSKSKDMESHVFLKAKTRDEYLS LVARLI IHFRDIHNKKSQASVSDPMNALQSLTGGPAAGAAGTGM PPRGPGQSLGGMGSLGAMGQPMLSGQPPPGTSGMAPHSMVVS TATPQTQLQLQVAAAAAATARSSSSSSRRYSSSSSSSNSKQ FQAQSSAMQ\QFOA\VVQQQQQL\QQQQQQQHLLIKLHHQNNQ QIQQQQQQLQRIQQLQQLQQQQQQQQQQQQQALQAPPIQPP PMQPPPPPPSQALPQQLQMMHTQHHPPPQPPQPPVQAQNPQS LPPQSQTQPLVSQAQALPGOMLYTQPLKFVRAPMVVQPPVQPP QVQQQTAVQTAQAQMVAPGVQVSQSSLPMLSSSPSPGQVQTP QSMPPPPQSPQPGQSSQPNNSVSSGPAPSPSSFLPSPSPQPF \QSPVTARTPQNFVSPSGPLNTPVNPSSVMSFAGSSQAEEQQY LDKQLKSKYIEPLRRMINKIDKNEDRKKDL SKMKSLLDILTDP SKRCPLKTLQKCEIALEKLNDAVPTPPPPVPPTKQYLCQP LLDAVLANIRSPVFNHSLYRTFVPAMTAIHGPPITAPVCTRKR RLEDDERQSIPSVLQGEVARLDPKFLVNLDP SHCSNNGTVHLC KLDDKDLPSVPPLLSVPADYPAQSLWIDROWQYDANPFLQSV HRCMTSRLQLPDKHSVTALLNTWAQSVHQAACLSAA
7017	1	1785	INLGNFCYMN SVI*ALFMA TD FRRQVLSLNLNGCNSLMKKLQHL FAFLAHTQREAYAPRIFFEASRPWF TPRSQQDCSEYLRFLLDL LHEEEKILKVQASHKPSEILECSETSLQEVASKAVALTETPRTS DGEKTLIEKMFQGLRTHIRCLNCRSTSQKAEFTDLSLAFWPS YSLEYMSCPDCSQSPSIQDGLMQASVPGPSEEFVYNYNPTTAA ICDSL VNEKTIGSPNFEYCSENTSVPNESNKILVNKDVPQKFG GETTPSVTDLLNYFLAPEILTGDNQYVCENCASLQNAEKTMTQIT EEPEYLILTLRFSYDQKYHVRKILDNVSLPLVLELPVKRITS

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			FSSLSESWSDVDFTDLSENLAKKLPSTDEASCTKLVVYLLS SVVVHSGISSSESGHYYSARNITSTDSSYQMYHQSEALALASSQ SHLLGRDSPSAVFEQDLENKEMSKWFLFNDSTVFTTSFQSVQK ITSRFPKDTAYVLLYKKQHSTNGLSGNNPTSGLWINGDPPLOKE LMDAITKDNKLYLQEQELNARARALQAASASCSPFRNGFDDNDP PGSCGPTGGGGGGGNTVGRVLP
7018	484	1066	SLVFRGNTWSGEAGHHCALFNLAAYHQLFVGTERIRAPEIIFQ PSLIGEEQAGIAETLQYILDYRPKDQVQEMLVQNVFLTGGNTMYP GMKARMEKELLEMRPFRSSSQVQLASNPVLDWYGARDWALNHL DDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDA QASSKGSAAAGGGGAGEQA
7019	1048	335	APGGFLVTMVFPAPSPFWMLGCCSHEVTAGPPTLCKDMSALVAA RMRHIPLAFGSDWRDLNIEVRLSDGTMARKLRYTHDRKNGRS SSGALRGVCSVEAGKACDPAARQFNTLIPWCLPHTGNRHNHWA GLYGRLEWDGFFSTVTNPEPMGKQGRVLHPQHRVSVRBCAR SQGFPTDYRLFGNILDKHRQVGNVPPPLAKAIGLEIKLCLMLAK ARESASAKIKEEEAAKD
7020	1	2154	FADSKRKSVLDDKIKNLQVALTSKQOSLETAMSFVARTFKVR NGFLMRKVAVFFSNTPTRASPQLREAVLKLSDAGITPLFLTRQE DRQLINALQINNTAVGHALVLPAGRDLTDFLENVLTCHVCLDIC NIDPSCGFGSWRPSFRDRRAAGSDVDIDMAFILDSEATTTLFQF NEMKKYIAYLVRQLDMSDDPKASQHFARVAVVQHAPSESVDNAS MPPVKVEFSLTDYGSKEKLVDFLSRGMTQLQGTRALGSAIEYTI ENVFESAPNPRDLKIVVLMLTGEVPEQQLEEAQORVILQAKCKGY FFVVLGIGRKVNIKEVYTFASEPNDVFFKLVDKSTELNEEPLMR PGRLLPSFVSSENAFYLSPDIRKQCDWFQGDQPTKNLVKFGHKQ VNVPNVNTSSPTSNPVTTTKPVTTTTPVTITTKPVTTTTPVTI INQPSVKPAAAKPAPAKPVAAPVATKTATVRPPVAVKPATAAK PVAAPKPAVRPPAAAAAKPVATKPEVPRPQAAKPAATKPAATK MVKMSREVVQFEITENSARKLHWRPEPPGPFYDLTITSADQS LVLQNLTVTDRTVIGLLAGQTYHVAVVCYLRSQVRATYHGSFS TKKSQPPPPQPARSASSSTINLMVSTEPALATETDICKLPKDEG TCRDFILKWWYDPNTKSCARFWYGGCGGNENKFGSQKECEKVCA PVLAKPGVISVMGT
7021	2	338	VNAVSPFPNGYAFATGSDDATCRFLDLRADQELLYSHDNITCG ITSVAFSKSGRLLLAGYDDFNCNVWDTLKGDRAVLGHDNRVS CLGVTDDGMAVATGSWDSFLRIWN
7022	2	856	VYIGSFWSHPLLIIDNRKLFEEAEQDLFRDIQSLPRNAALRKLN DLIKRARLAKVHAYIISLKKEMPSVFGKDNKKSLVNNLAETIY GRIEREHQISPGDFPNLKRMDQLQAQDFSKFPPLSKLLEVV DMLAHDIAQLMVLVRQEESQRPIMVKGGAFFGTLHGPFHGYG EGAGEGIDDAEWVWARDKPMYDEIFYTLSPVDGKITGANAKKEM VRSKLPNSVLGKIWKLADIDKGMDDDEFALANHLIKVLEGH ELFNELEPAHLLPPSKRKVAE
7023	2	748	AMVFGGVVVPYVQYRDITRTQADGFSTYVCLVLLVANILRILF WFGRRFESPLLWQSAIMILTMLMLKLCTEVRVANELNARRRSF TAADSKDEEVKAPRRSFLDFDHHFWQWSSFSYVQCVLAFTG VAGYITYLSIDSALFVETLGFVAVLTEAMLGVPQLYRNHRHQST EGMSIKMVLMTSGDAFKTAYFLKGAFLQFSVCGLLQVLVDLA ILGQAYAFARHPQKPAHAVHPTGTAL
7024	1207	190	RTGVTGVVAQVVMFSGGVLSGGEQLQMPVKPERGLGPSDGLV SSRRGSPGTVLGLPFWLLTPVLVSRISRMILLTRSPATAWHRLS QLKPPVLPGLTGGQALHLRSWLLSRQGPATGGGQPGQPGFLRT RLLTGLFAGLGGAWLALRAEKERLQQQKRTALRQAAGVQGD FHLLDHRGRARCKADPRGQWVLMYFGFTHCPDICPDELEKLVQV VROLEABPGLPPVQPVFITVDPERDDVEAMARYVQDFHPRLLGL

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			TGSTKQVAQASHSYRVVYNAGPKDEDQDYIVDHSIATYLLNPDG LFTDYVGRSRSAEQISDSVRRHMAAFRSVLS
7025	232	832	ERNSPIGNENL*K\HSLDCLCFRGDWEGNTQFQTLQDNQBECE KQVIRTCERPTFNQHTVFNHQRNTGDKLNEFKELGKAFISG SDHTQHQLIHTSEKFCGDKCEGNTFLPDSEVIQYQTVHTVKKTY ECKECGKSFSLSRSLTGHKRIHTGEKPKCKDCGKAFFHSQLS VHKRIHTGEKSYECKECGKAFSCG
7026	328	1146	NPNPSTGDIKDIKKAASMLDPAKSHFHPVTPSLVFLCFIFDG LHQALLSVGVSKRSNTVVGNNENEERGTPYASRFKMPNFIALEK SSVLRHCCDLLIGVAAGSSDKICTSSLQVQRRFKAMMASIGRLS HGESADLLISCNAESAIGWISSRPWVGELMFTFLFGDFESPLHK LRKSS*LPRKHR*QPINAVRMFLDQCMDGSIALRAIVSEIPVFE EKKNG*KGIGEIF*VWGCTLPHYWGAVTNVPKLSNSGKLLG QDEQPHIFG
7027	43	954	GRRLQQQRPEDAEDGAEGGGKRGEGAGWEGGYPEIVKENKLFEH YYOELKIVPEGEGQFMDALREPLPATLRITGYKSHAKEILHCL KNKYFKELEDLEMDGQKVEVPQPLSWYPEELAWHTNLSRKILRK SPHLEKFHQFLVSETESGNISRQEAUSMIPPLLNVPRHHKILD MCAAPGSKTTOLIEMLHADMNVPFPEGFVIANDVDNKR CYLLVH QAKRLSSPCIMVNVHDASSIPRLQIDVDGRKEILFYDRILCDVP CSGDGTMKNIDVWKWTTLSLQHLQRLRIATRGAEQL
7028	189	608	SRPPEPEPGTMVEKGSDDSSSEKGGVPGTPTSTQSLGSRNFIRNS KKMQSWYSMLSPTYKQREDFRKLFKSLPEAERLIVDYSCALQR EILLQGRLYLSENWICFYSNIFRWETTISIQLKEVTCLKKEKTA KLIPNAIQ
7029	1343	40	VLESNTEAKQATGTSSKLRHGTGQEKGRGPRCPGSLAQRLWG /PCPHAGRETGPRASAPIPGS*GHGWHW*RKDGRGERSEGPSAL SPHSPSLNMQQAPTHVGPGMGSRPRSSVVEQVGVGSQLSRE RWRA*RLPGAAASERTEMTKERSP/RPCQGYDSSNWFQPGKK TRKRNRRNTMVSRRGGCLLYPLQSIMPE*QLR*GAHASPTQG R*GKGGRPSPLTKASGTHIPTPFPGSIP/RPTRDSGEGTDSN\ AAPGQKRGHREA*QGPEPV/WGRVTTHLQGPAG*TKPLGS\RNW VPGPAEGEGEGAGLEGRP*PLKGRSTLTFSPLSIPMVGKKP PEGTTASFFP\RSCHSE*RKPPSPCPHAPALSPLHPLPLPLPL PLPLPGAGT*HSARSGRPGQSETGSLCHNCHCPCPHCPKCSPPG T
7030	2	521	FVCFSAFGSGQGGKRRVNMELSAVGERVFAAEALLKRRIRKGRM EYLKWKWGSQKYSTWEPEENILDARLLAAFEEREREMELYGPK KRGPKPTFLKQAQAKAKTYEFRSDSARGIRIYPGRSPQDL ASTSRAREGLRN\RVCPRQRAAPAPAP\PRRGPSGPGPRPG*G PGLHFGPGGPGSKHGFVPASEQHQQHQLPRRGPSGPGPRPG
7031	960	59	HCSVPGAWEPRKPPAQICPQLTSRPHLSPPSLSPGCGHSPGPG /CKPS/RHCDLHEGSPSRTAALFCGKPPQKHGVECG/PCPCLA PRLTEPPALTVSPVGRAPAGAL*PSGRACSACSHRLAPEAAL SAAAPRPSLGSQNASGLPAASLPQDSSQPHKTVPSPARSVPP LGAQARAAPPRLWCPRALVSG*EASPEAVSVAAGPPVPGTPTST SGSTASHSRRC*SPR*TPAPRRDHGRSAAFEVLTAASAQPC ASQGGPRPTGAGRTPSPLGLPFSRGPPAASARPFCHPSL
7032	1393	2104	RRPGRTEPVPPPVPFPFRASNSKSRCR*RNHLAPL*QSPLRK SRQIGTSSLPFGRSAGERPRPAATFCLSRGGSSPVFL*PSSSSL EPWMKQFGRHLHSLFWKSWQKMSPLLTPLKDLTSLMSGWRYRQR LPRLHTFLKKSQMASLAPPLPTAPLASSLPPPPGPPPLPLPV PLA*LSRSGILVPPNSGFSLSL\PLGDH*GSSGEVRGSCGSPPP HHCWVLPPLPP*LLPPR
7033	689	815	RSRDCLSSSATSNRRRSKCSGPKRATPLDSGPGF*APPGPSSA

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			LMPSSCPWRTGALGSPAGSRALGRCCTSSVGPGRWLTRTSSP GCATRIWRTMRMEPRPLRSRMGESAPGIPAEPLSAAPSGPSAPS AAAPSAPTTPAAAGPNTL*SRRTAEWCWPPSCSCCWGWC*SWSA WDWRPPLQVSPAPSSSCRASCCWCLESIT*SSSTARSRATGAS SSSTCPTSRSDRGAAWTP\SPMGAPLLPCSVPLISREBALQDPR NPSP*GVCSSGSGHAGLALGKPPVACSV
7034	92	1942	EDTSSMPFRLLIPLGLLALLPQHGGAPGPDGSA PDPAHYRERV KAMFYHAYDSYLENAFFDELRLPTCDGHD TWGSFSLTLIDALD TLL\TLFYFQILGNVSEFQRVVEVLQDSVDFDIDVNASVFPETNI RVVGGLLSAHLLSKKAGVEVEAGWPCSGPLLRMAEEAARKLLPA FQTPTGMPYGTVNLLHGVNPGETFPVCTAGIGTFIVEFATLSSSL TGDPVFEDVARVALMRLWESRSDIGLVGNHIDVLTGKWVAQDAG IGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDW YLWVQMYKGTVMMPVFQSL EAYWPGQLQSLIGDIDNAMRTFLNYY TVWKQFGGLPEFYNI PQGYTVEKREGYPLRPELIESAMYLYRAT GDPTLLELGRDAVESIEKISKVECGFATIKDLRDHKLDRNMESF FLAETVKYLYLLFDPTNFIHNGSTFD AVITPYGECILGAGGYI FNTAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRSRSKFPQ KNTVSSGWPWEPARPGLTLPSPENHDQARERKPAKQKVPLLSCPS QPFTSKLALLGQVFLDSS*PLDNFFIFIFLRLNYNKLLLAIIKK K
7035	92	1942	EDTSSMPFRLLIPLGLLALLPQHGGAPGPDGSA PDPAHYRERV KAMFYHAYDSYLENAFFDELRLPTCDGHD TWGSFSLTLIDALD TLL\TLFYFQILGNVSEFQRVVEVLQDSVDFDIDVNASVFPETNI RVVGGLLSAHLLSKKAGVEVEAGWPCSGPLLRMAEEAARKLLPA FQTPTGMPYGTVNLLHGVNPGETFPVCTAGIGTFIVEFATLSSSL TGDPVFEDVARVALMRLWESRSDIGLVGNHIDVLTGKWVAQDAG IGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDW YLWVQMYKGTVMMPVFQSL EAYWPGQLQSLIGDIDNAMRTFLNYY TVWKQFGGLPEFYNI PQGYTVEKREGYPLRPELIESAMYLYRAT GDPTLLELGRDAVESIEKISKVECGFATIKDLRDHKLDRNMESF FLAETVKYLYLLFDPTNFIHNGSTFD AVITPYGECILGAGGYI FNTAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRSRSKFPQ KNTVSSGWPWEPARPGLTLPSPENHDQARERKPAKQKVPLLSCPS QPFTSKLALLGQVFLDSS*PLDNFFIFIFLRLNYNKLLLAIIKK K
7036	442	761	CLAPLFSCFQIINLHLPASGRLRWAWLRGPGRN*LPGEGPSIPT RNW*ERKAGCSQPC/PAQQHGRPPGVSP LPRDPHPHTTLRPLPP PPPPPPPPPRRPPRRNRPG
7037	442	761	CLAPLFSCFQIINLHLPASGRLRWAWLRGPGRN*LPGEGPSIPT RNW*ERKAGCSQPC/PAQQHGRPPGVSP LPRDPHPHTTLRPLPP PPPPPPPPPRRPPRRNRPG
7038	155	891	GAGAASDMSSGLRAADFPRWKRISEQLRRRDR LQROAFEEIIL QYNKLEKSDLHSVLAQKLQAEKHDVFN RHEISP GHDGTWNDNQ LQEMAQLRIKHQBELTELHKKRGELAQ\ RVIDLNNQMQRKDREM QMNEAKIAECLQTI SDLETECLDLRTKLC DLERANQTLKDEYDA LQITFTALEGKLRKTTEENQELVTRNMAEKAQEANRLNARE*KR LQEAASPAERACRSSSGTSTSTRTG
7039	155	891	GAGAASDMSSGLRAADFPRWKRISEQLRRRDR LQROAFEEIIL QYNKLEKSDLHSVLAQKLQAEKHDVFN RHEISP GHDGTWNDNQ LQEMAQLRIKHQBELTELHKKRGELAQ\ RVIDLNNQMQRKDREM QMNEAKIAECLQTI SDLETECLDLRTKLC DLERANQTLKDEYDA LQITFTALEGKLRKTTEENQELVTRNMAEKAQEANRLNARE*KR LQEAASPAERACRSSSGTSTSTRTG
7040	34	789	KITPPRRPHRCSSGHGSDNSSVLSGELPPAMGKTALFYHSGSS GYESVMRDSEATGSASSAQDSTSENSSVSGGRCSLKT PKKRSN

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			PGSQRRRLIPALSLDTSFVRKPPNSTGVRWVDGFLRSSPRGLG EPFEIKVYEIDDVERLQRRRGASKEAMCFNAKLKILEHRQQRI AEVRKYEWMKELEATKQYLMLDPNKWLSEFDLEQVWELDSLE YLEALECUTERLESRVNFCKAHLMMITCFDIT
7041	1	567	SGRVAMGRRRAPAGGSLGRALMRHQTRSRSHRTDSWLHTSEL NDGYDWGRNLNLSVTEQSSLDLFLATAELAGTEFVAEKLNIKFV PAEARTGLLSFEBSQRIKKLHEENKQFLCIPRRPNWNQNTTPEE LKQAEKDNFLEWRRL\VRLEEEQKLILTPFERNLDFWRQLWRV IERSDIVVQIVDA
7042	7	345	PIHMAAALRADIT\TSPFPFIQGYLLLSASHG\ATSLHTKGAL PLETVMYTVIPKSKYVLVKPDTQYPYSENLEDFKRLAENSASN DOLLMAEVAISDYGDKLTLELREKY
7043	2	2170	ARGMAARDSSEEDLVSYGTGLEPLEEGERPKKFTPLQDQTVRD EKGRYKRFHGFAGSGGFSAGYFNTVGSKEGWTPSTFVSSRQNRAD KSVLGPEDFMDEEDLSEFGIAPKAIUTDDFASKTKDRIREKAR QLAAATAPIPGATLLDDLITPAKLSVGFELLRKMGWKEGGVGP RVKRRPRRQKPDGPKIYGCALPGSSESGEGEDDDYLPDNTVF APKDVTPVDFTPKDNVHGLAYKGLDPHQALPGTSGEHFNLFSGG SERAGDLGEIGLNKGRKLGISGQAFVGVALEEDDDIYATETLS KYDTVLKDEEPDGLYGTAPRQYKQKSEKDLRYVGKILDFG SLASKPLSSKKIYPPPELPRDYRPVHYFRPMVAATSENHLLQV LSESAGKATPDGTHSKHQLNASKRAELLGETPIQGSATSVLEF LSQDKKERIKEMQATDLKAAQLKARSLAQNAQSSRAQSPAPAA AGHCSWNMALGGGTATLKASNFKPAKDEKQKRYDEFLVHMKG GQKDALERCLDPSMTEWGRGRERDEFARAALLYASSHSTLSRF THAKEEDSDQEVPRDQENDVGDKQSAVKMMKMGKLTDRDTEW HPDKLLFQ/RLVGLPRVKRDKYSVFNFLLTPETASLPTQASSE KVSQHRGPDKSRKPSRWDTSKHEKEDSISEFLRLARSKAEPPK QQSSPLVNKEEHAPELSAN
7044	276	734	EVYLTDEFAGKRGKVDLYELVQYAGNIIPRYLLITVGVVYVKS FPQSRKDLKDLVEMCRGVQHPLRGLFLRNLYLQCTRNILPDEG EPTDEETGDISDSMDPVLNFAEMNKLWVRMQHGHRSRDEKR ERERQELRILVGTNLVRLSQV
7045	3	513	LGFKMEALSRAQEMSIAALKQHDPHYTTSIADLTGQVALYTFCP KANQWEKTDIEGTLFVYRRSASPYHGFTIVNRLNMHNLVEPVNK DLEFQLHEPFLLYRNASLSIYSIWFDKNDCHRIAKLMADVVEE ETRRSQQA/RSGQTESQPGQWLQRPQAHHRPGDAEQSQG
7046	3	513	LGFKMEALSRAQEMSIAALKQHDPHYTTSIADLTGQVALYTFCP KANQWEKTDIEGTLFVYRRSASPYHGFTIVNRLNMHNLVEPVNK DLEFQLHEPFLLYRNASLSIYSIWFDKNDCHRIAKLMADVVEE ETRRSQQA/RSGQTESQPGQWLQRPQAHHRPGDAEQSQG
7047	103	486	QMKIEKCGWSEGLTSIKGNCHNFYTAISKDVITYKELKNLLNSKN IMLIDVREIWEILEYQKIPESINVPLDEVGEALQMNPRDFKEKY NEVKPSKSDS/IVFSYLAGVRSKKALDTAISLGFHSYYER
7048	92	627	FFCLTLLSSWDYRHATRRVISPVTMEDSGKTFSSSEEEANY WKDLAMTYKQRAENTQEELREFQEGSREYAELETQLQQIETRN RDLSENRLRMELETIKEFEVQHSSEGRYQISALEDDLAQTKA IKDQLQKYIRELEQANDDLERAKRATDHGLSKTFE\QRLN\QAI EKKW
7049	393	938	KRTGSASVGGPPFGLGGPATXASVAGRCSSVGKI PARRCYEDEL VPVFEAVGRIYELRLMMDPDGKNRGYAFVMYCHKHEAKRAVREL NNYEIRPGRLLGVCCSVNCRFLFGGIPKMKKREEILEEIAKVT EGVLDVIVYASAADKMKNRGLRLRGVREPPRGCHWLGRKLIAXW ASSLWG
7050	393	938	KRTGSASVGGPPFGLGGPATXASVAGRCSSVGKI PARRCYEDEL

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			VPVFEAVGRIYELRLMDFDGNRGYAFVMYCHKHEAKRAVREL NMYEIRPGRLLGCCSVNCRFLFIGGIPKMKKEEILEEIAKVT EGVLDVIVYASAADKMKNRGLRLRGVREPPRGCHWLGRKLIAXX ASSLWG
7051	119	816	KKMNLAEICDNAKKGREYALLGNYSMSVYQGVMOQIQRHCQS VRDPAIKGKQVVRQELLEEEYQVKSIVGTLESFKIDKPPDFPV SCQDEFFRDPVWPPVPAEHRAPPQIRR/RQSRKSTSEERNGR SRSPGTCRPST\PISKSEKPTSRDKDYRARGRDDKGRKKNMQDG ASDGEMPKFDGAGYDKDLVEALERDIVSRNPSIHWDIADLEEA KKLLREAGVLPMMW
7052	467	715	SCPGRGKMSKLLNPEEMTSRDYFFDSYAHFGIHEEMLKDEVRTL TYRNSMYHNKHVFKDKVVLVDVSGGTGILSMFAARQGPRR
7053	467	715	SCPGRGKMSKLLNPEEMTSRDYFFDSYAHFGIHEEMLKDEVRTL TYRNSMYHNKHVFKDKVVLVDVSGGTGILSMFAARQGPRR
7054	1	1036	GTSQSRRETDARRRSAGAEPTARLPWPAALAEWSPCEPLGFG RRCRWDAEMEYDEKLARFQAHLNPFNKQSGPRQHEQGPGEEVPD VTPEALPELPPGPEPEFRCPERVMDLGLSEDFHSRPFVGLFLASD VQQLRQAIEECKQVILELPEQSEKQKDAVVRILHLRLKLQELKD PNEDEPNIRVLEHRFYKEKSKSVKQTCDCNCNTIIWGLIQTWYT CTGCYRCHSKCLNLISPCVSSKVSQAEYELNICPETGLDSQ DYRCAECRAPI/CS/DGVVPSEARQCDYTGQYYCSHCHWDLAV IPARVVHNDVFEPRKVSRCMSRYLALMVSRLVRLREIN
7055	2	527	DSRRVSWRSWLANE/WGKHLCLFIWLSMNVLFWKTFLLYNQGF EYHYLHQMLG/ALCLSRASASVLNLCNLSLILPMCRITLLAYLRG SQKVPSSRRTRRLDKSRTFHITCGATICIFSGVHVAHLVNALN FSVNYSEDFVELNAARYRDEDPKRLFLTTPVGLTGVCMEVVLFL M
7056	2	527	DSRRVSWRSWLANE/WGKHLCLFIWLSMNVLFWKTFLLYNQGF EYHYLHQMLG/ALCLSRASASVLNLCNLSLILPMCRITLLAYLRG SQKVPSSRRTRRLDKSRTFHITCGATICIFSGVHVAHLVNALN FSVNYSEDFVELNAARYRDEDPKRLFLTTPVGLTGVCMEVVLFL M
7057	1368	431	GIYLVNEKIFRPTCIGDRQENDKENLNLENHRDQELLHASCOA SGEVPSQASLRGFFTEDEPGCFEGENLPEALQNIQDEGTGEQL SPQERISEKQLGQHLEPNHSGEMSTMWLEEKRETSQKGPAPAP AQKLPFCRECGKTFYRNSQLIFHORTHGTGETYFQCTICKAPLR SSDFVKHORTHTEKPKCKDCYCGKGFSDFGSLRHHEKIHTGEKP YKCPICEKSFQSRNFRHQRVHTGEKPYKCSHCGKSFWSSSL DKHQRSHLGKKPPO*PVTKLSFPISISQPSHKNTQLHQEELCLR GYPC
7058	1	469	FSGFGAVPDALGCRMSDLRITEAFLYMDYLCFRALCCKGPPPAR PEYDLVCIGLTGSGKTSLLSKLCSFDPNVVSTTGFSIKAVPFO NAILNVKELGGADNIRKYWSRYQSGQVIFVLDASSEDDELEA ARN*STQQLQHPQLCTLPFLILA
7059	1	1178	WPAFPRQAAAAMDALLGTGFRARGCLGAAGPTSSGRAARTPA APWARPSAWLECVVVTFDLELGQALELVYPNDFRLTDKEKSSI CYLSFPDSHSGCLGDTQFSFRMRQCGGQSRPNHADDRHYNSRAP VALQREPAHYFGYVYFRQVKDSSVKGYPQKSLVLVSRLLPFVRL FQALLSLIAPEYFDKLAPCLEAVCSEIDQWPAPAPGQTLNLEVM GVVVQVRIPSRVDKSESSPPKQFDQENLLPAPVVLASVHELDLF RCFRPVLTHMTLWELMLLGEPLLVLPSPDVSSEMVLAITSCL QPLRFCCDFRPYFTIHDSEFKFTTRTQAPPNVVLGVNTNPFKIK TLQHNPHILRVGEPKMSGDLPKQVKLKKPFKV*RPWDTKP SVNLPPSLWPNWEEAMDSTKSEPLKGSPEAEDGNIYKKLNVPSQ YRFEHLVTQMKWRLQEGRGEAVYQIGVEDNGLLVGLAEEMRAS
7060	90	1670	

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			LKTLHRMAEKVGADITVLREREDVDSDMPRKITEVLVRKVPDN QQFLDLRVAVLGNVDSGKSTLLGVLTQGEIDNGRGRARLNLFRRH LHEIQSGRTSSISFEILGFNSKGEVHGINGTQWGQTLRMGW*** RT*DGGRVWRLEIV*MNALRGL*TSSAPLRKSMGNQIN*IKNG VKIKRQGHGPNGLGPGNSEGVGRAGRRH*GPWALGQVVNYSDSR TAEIICESSSKMITFIDLAGHHKYLHTTIFGLTSYCPDCALLV SANTGIAGTTREHLGLALALKVPFFIVVSKIDLCAKTTVERTVR QLERVLKQPGCHKVPMVLVTSEDDAVTAAQQAQSPNVTPIFTLS SVSGESLDLLKVFNLPLPLTNSKEQBELMQQLTEFQVDEIYTV PEVGTUVGGTSLR*IDLLATLPTQPSPIYSKTSWPKGGDPI
7061	364	710	ARMPSPLGPPCLPVMDETTLEPETARLRFRCGYQEVAGPRE ALARLRELCCQWLQPEAHSKEQMLEMLVLEQFLGTLPPETIQAW RGQRPGSPPEAAALVEGLQHD*ARMPSPLGPPCLPVMDETTLE EEPETARLRFRCGYQEVAGPREALARLRELCCQWLQPEAHSKE QMLEMLVLEQFLGTLPPETIQAWVRGQRPGSPPEAAALVEGLQHD PGQLLG
7062	71	744	AKAGTNLRLRLHLSYFFCTPKHKLKSSQKDKVRQFMACTQAGER TAIYCLTQNEWRLEADTSFFQNPDSLHRESMRNAVDDKKLERL YGRYKDPQDENKIGVDGIQPCDDLSLDPASISVLVIAWKFRRA TQCEFSRKEFLDGMTLGCDSMEKLLKALLPRLEQELKDTAKFKD FYQFTTFAKNPGQKGLDL*MAGAYNKLVLSSGRFKFLYLWNTPL MEHH
7063	2	562	LRTVPDLPGRRFRAMRTGQRR*PELPPDMNSLEQAECLKAFERR LTEYIHLQPATGRWRMLLIVVSVCTATGAWNWLIDPETQKVSF FTSLWNHPFFTISCITLIGLFFAGIHKRVVAPSIIAARCRTVLA EYNMSCDDTGKLLKPRPHVQ*QSSLIVMGLKIAFLRISDTAKS HKGFLRLRLDM
7064	300	884	RDTGSDPSSTRRLCSTCCTGH*PAEPIASPHPSRGTCFPASSAS SRRTGCWTCPPESGHAQARRSRRASASRWGARGAVRSABAARGC SSRAGRWLETPGRRRGPPACAAAAGRLRGFPAP*AAPTASVPAR CRCPAARTGAPAAATWLRRLSGLRAPALGRRRSPGPSPKSAAP PLLTPLGAGRAGGSRANS
7065	1	555	ATTHSARRSGRGAEEAAASAAGGRQKGFDRKAWEGRRRTTGG RSQSEPKAPPPQKRSEAAAFASMAHSPVAVQVGMQNNIADPEEL FTKLERIGKSGPGEVFKGIDNRTQQVVAIKIIDLEEADEIEDI QQEITVLSQCDSSYVTKYYGSLYKGSKLWIIIMEYLGGSALDLL RAGFFDEFQ
7066	356	676	PGPQRGPWRAREGGHFLDPADHPRAPASLRNSVRAATMMQICDT YNQKHSLENAMNRFICAVNNMDQTMVPSLLRDVPLADPGLDND VGVEVGSGGCGLEERTFP
7067	152	973	KENITMATEIGSPPEFFHMERFOHQAPROLFYKRPDFAQQQAMQ QLTFDGKMRKAVNRKIDYNPSVIKYLENRIWQRDQDRMRAIQ PDAGYYNDLVPPIGMLNPMNAVTTKVRTSTNKVKCPVFVVRW TPEGRLVTGASSGEBFTLWNGLTFFNFETILQAHDSPVRAMTWSH NDMWMLTADHGGYVKYQSNMNMNVKMFQAHKEAIREARFIHNIP FSVVPVIMVKLFSKCILGAEMHGLCQPLGNFLHPNTIFFVFVT HSFFCNAPF
7068	222	816	DTMKEYVLLFLALCSAKPFFSPSHIALKNMMLKDMEDTDDDDDD DDDDDDDDDDNSLEPFTREPRSHFFPDLFFMCPFGCCQYSRV VHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKENDFKGLTSLY GLILNNKLTIKIHPAFLTTKKLRLYLSSHNLSEIPLNLPKSL AELRHHENKVKKIQKDTFKKK
7069	1147	1765	FRDHRRYFYVNEQSGESQWEPDGESEESQAQENRDETAKQ TLKDKTGTDSNSTESSETSTGSLCKESFSGQVSSSSLMPLTFW TLLQSNVPVLQPLPLEMPPPPPPPPPPPPPPPPPPPPPPAPKMPP

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			EKTKKGRKDKAKKSKTKMPSLVKKWQSIQRELEEDNSSSSSEED RVSTAQKRIEENKQQQLVSGMAERNANFEA
7070	1	547	DGTWEDSEAVQRATALIEQRLAQEEENEKLRGDARQKLPMDLLV LEDEKHHGAQSAALQKVKQGERVKTSLDLRREIIDVGGIQNLI ELKKRKQKKRDALAASHEPPPEPEEITGPVDEETFLKAAVEGK MKVIEKFLADGGSADTCDQFRRTALHRASLEGHMEILEKLLDNG ATVDFQ
7071	2	921	ARGTLRALETAKKVGKVGANGQKAAGPSADSVTENKIGSPFKTP VSNVAATSAGPSNVGTELSVPOKSSPFLTRVPAYPPHSENIQY FQDPRTQIPFEVPQYPQTGYPPPTVPAGVAPCVPRFVRSNNV PESSLPASMPYADHYSTFSRDRMNSSPYQPPPPQPYGVPVPV PSGMYPVYDSRRIRWPPMYQRDDIIRSNSLPPMDVMHSSVYQT SLRERYNSLDGYYSVACQPPSEPRTTVPLPREPCGHLKTSCEEQ IRRKPDQWQAQYHTQKAPLVSSSTLPVATQSPPTPSTLNRGEES
7072	2	921	ARGTLRALETAKKVGKVGANGQKAAGPSADSVTENKIGSPFKTP VSNVAATSAGPSNVGTELSVPOKSSPFLTRVPAYPPHSENIQY FQDPRTQIPFEVPQYPQTGYPPPTVPAGVAPCVPRFVRSNNV PESSLPASMPYADHYSTFSRDRMNSSPYQPPPPQPYGVPVPV PSGMYPVYDSRRIRWPPMYQRDDIIRSNSLPPMDVMHSSVYQT SLRERYNSLDGYYSVACQPPSEPRTTVPLPREPCGHLKTSCEEQ IRRKPDQWQAQYHTQKAPLVSSSTLPVATQSPPTPSTLNRGEES
7073	50	504	LAHGSFGVSDFPAPAAAPAHLTLSFSGSLSPQFRKPLGRAPAMP LVRYRKVVILGYRCVGKTSLAHQFVEGEFSEGYDPTVENTYSKI VTLGKDEPHLHLVDTAGQDEYSILPYSFIIGVHGYLVVYSVTSL HSFQVIESLYQKLHEGHGK
7074	263	1003	VCPVLCSTRQEPGHSSLVTFYFGKPTRRKEFLLGHGICIAAGKMNIS VDLETNYAELVLDVGRVTLGENSRKKMKDKLKKQNERVSRAM CALLNSGGGVKAEIENEDYSYTKDGIGLDLENSFNNILFVPE YLDFMQNGNYFLIFVKSWSLNTSGLRITTLSSNLYKRDITSKV MNATAALEFLKDMKTRGRILYLRPELLAKRPRVDIQEENMKAL AGVFFDRTELDREKLTFTTESTHVEI
7075	598	1005	NYINFFFRKEYPPHVQKVEINPVRLSRLQGVIRIMKTEESSEQ VEPEIKRKVQKRCSTYQPTPLSPASKKCLTHLEDLQRNCRQ AITLNESTGPLLRTSIHQNSGGQKSQNTGLTTKKFYGNVVEKVP IDII
7076	279	1049	LQESSNAAEGNEQRHEDEORSKRGGSWKGKRRKKPLRDSNAPK SPLTGYVRFMNERREQLRAKRPEVPFPEITRMLGNEWSKLPPEE KORYLDEADRDKERYMKELEQYQKTEAYKVSRTQDRQKGKSH RQDAARQATHDEKETEVKERSVFDIPIFTEEFLNHSKAREAL RQLRKSNMFEERNAALQKHVESMRTAVEKLEVDVIQERSRNTV LQOHLLETLRQVLTSSFASMPLEXPGETPTVDTIDSYM
7077	3	1119	SSMGNSSEINGLALRKTDKYGFLLGGSQYSGSLKSSIPVDVARQR ELKWLDMFSNWDKLSRRFQVKLCRCRKGIPSSLRKAWQYLSN SKELLEQNPRKFEELERAPGDPKWLVDVIEKDLHRQFPFHEMFAA RGGHGGQDLYRILKAYTIYRPDEGYCQAQAPVAAVLMHMPAEQ AFWCLVQICDKYLPGYYSAGLEAIQLDGEIFFALLRRASPLAHR HLRQRIDPVLMTWFMCI FARTLPWASVLRVWDMFFCEGVKI IFRVALVLLRHTLGSVEKLRSCQGMETMEQLRNLPOCCMQEDF LVHEVTNLPVTEALIERENAAQLKKWRETRGELQYRPSRRLHGS RAIHEERRRQOPPLGPSSS
7078	483	767	FQQRMMAGEQKPSNNLEQFILLAKGTSGSALTALISQVLEAPG VYVFGELLELANVQBELAEGANAAYLQLLNLFAYGTYPDYIANKE SLPELY
7079	2	376	SVVEFKRPKEPSGSDGESDGPIDVGQEGQLSQMARPLSTPSSSQ MQARKKRRGIIEKRRDRINSSLSLRLRLVPTAFKQGGSSKLEK

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7080	200	595	AEVLQMTVDHLKMLHATGGTGTTHALLFQASFIQOIF VQLPLEAPCLSLSLSCRDHSGGNRDLRRHRDCRVYGSPODGIPY LTHPLCHQDVSVGRLQIRALATPGHTQGHVLLDGEVPYKGPS CLFSGDLLFLSGCGEFPKRKEELGEEGETEVRATVPWRALKP
7081	213	506	AVTEEMILNLSLSLCYHNKILAPMVRVGTLEMRLLALDYGADI VYCEELIDLKMIQCKRVVNEVLSTVDFVAPDDRVRVFTCEREQN RVVFQMGTS
7082	3	1137	APSRNTMLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSL CCRSSPRDLRDGEREHEAAQKAPGAESCPSLPLSISDITGTGCL SSLENLRLPTLREESSPRELEDSSGDQRCGPTHQGSSEDPMSLS QAQSAATEVEERHVSPCSSTSRERPFQAGELILAEETGETKFKK LFRLLNFGLLSNWCAVPFGKIVGKFPQILRSSFGKQYMLRRP ALEDYVVLKRGTAITFPKIDNMLSMMDINPGDITVLEAGSGSG GMSLFLSKAVGSQGRVISFEVRKDHDLAKKNYKHWRDSWKLSH VEEWDNDVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTLVPF YPHLKHGGVCPVYVNNITQVIELLD
7083	115	541	RSNAVQLTRMEYAMKSLSLYPKSLSRHVSVRTSVVTQQLLSEP SPKAPRARPCRVSTADRSVRKIMAYSLEDLLKVRDTLMLADK PFPLVLEEDGTTVETBEYFQALAGDTVMVLQKQKQWPPSEQG TRHPLSLSHK
7084	3	522	NSVSVSQSRLASVPGTGVSAAADMAASTAGKQRIKPVAK VKNKAPAEVQITAEQLLREAKERELELLPPPQKIDDEELND YKLRKRKTFEDNIRKNRTVISNWKIYAQWEESLKEIQARSIYE RALDVDYRNITLWLKYAEMEMKNQOVNHARNIWDRAITTL
7085	243	1499	RQLARLRRRGWRSPFGGAPMAHITINQVLOQVYEADISRDGASC AELVSFKHPHVANPRLQMASPEEKCCQVLEPPYDEMFAHLRCT YAVGNHDFIEAYKQCTVIVQSFLRAFOAHKEENWALPVMYAVAL DLRVFANNADQQLVKKGSKVGDMLEKAAELLMSCFRVCASDTR AGIEDSKKGMFLVLNQLFKIYFKINKLHLCKPLIRADISSNLK DDYSTAQRVTYKYVGRKAMFDSDFKQAEYLSFAFEHCHRSSQ KNKRMILYLLPVKMLLGHMPTVELLKKYHLMQFAEVTRAVSEG NLLLLHEALAKHEAFFIRCGIFLILEKLKIIITYRNLFKKVYLL KTHQLSLDAFLVALKFMQVEDVDIDEVQCILANLIYMGHVKGYY SHQHQKLVSQKQNPFPPLSTGC
7086	256	525	TLAARMGKQNSKLRFVMDLLESTDFTEHETQEWYKGLRDCP SGHLSMEEFKKIYGNFFPYGDASKFAEHVFTFDANGOGTIDFR EF
7087	166	723	LSGSSAGKVAAPCVPPSNHELVPITTENAPKNVVDKGEASRGG NTRKSLDNGSTRVTPSVQPHLQPIRNMVSVRTMEDSCELDLY VTERIIVASFPSTANEENFRNLREVAQMLKSKHGGNYLLFNLS ERRPDITKLHAKVLEFGWPDLHTPALEKICSICKAMDTWLNAP HRCRVLHNKG
7088	104	759	GTSASPSSLLEMAGETTETGELYSSYVGLVYMFNLIUGTGALT MPKAFATAGWLVSLLVFLGFMSPMTTTFVIEAMAAANAQLHW KRMLNKEEDDDSSASDSDVLRDNYERAERKRPILSVQRGS PNPFEITDRVBMGQMASMFFNKVGNLFYFCIIVYLYGDLAIYA AAVPFSLMQVTCATGNDSCGVEADTKYNDTDRCWGPIRRVD
7089	33	1775	SVCWEDRYLKARMEESFLSRAPSRGGVNFNVRTYIPNTKVEC HYTLPPGIMPASDWIGIFKVEAACVRDYHTFVWSSVPESTTDG SPIHTSVQFQASYLPKPGAQLYQFRYVNRQGGVCGQSPFPQFRE PRPMDELVTLEADGSDILLVVPKATVLQNLDESQQRNDLM QLKLQLEGQVTELSRVQELERALARATARQEHTELMEQYKGISRS HGEITEERDILSRQGGDHVARILELEDDIQTISEKVLTKVEELD RLRDTVKALTRQEKLLGLQKQVQADKEQSEALQVAQQENHHL NLDLKEAKSWQEEQSAQAQRLKDKVAMKMDTLGQAQQRVALEP

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			LKEQLRGAQELAASSQKATLLGEELASAAAARDRTIAELHRSR LEVAEVNGKLAELGLHLKEEKQWSEKERAGLLQSVEAEKDKILK LSAEILRLKAVQEERTQNVFKTELAREKDSLVQLSESKRE TELRSALRVLQKEKEQLQEEKQELLEYMRKLEARLEKVADEKWN EDATTEDEAAVGLSCPAALTDSEDESPEDMRLHPMAFVSVETQ ASLLGLE
7090	33	1775	SVCWEDRYLKARMEESPLSRAPSRGGVNFNLNVARTYIPNTKVEC HYTLPPGTMPASDWIGIFKVEAACVRDYHTFVWSSVPESTTDG SPIHTSVQFQASYLEKPGAQLYQFRVYVNRQGVCGQSPFPQFRE PRPMDLVTLEADGGSDILLVVPKATVVLQNLDESQQERNDLM QLKLQLEGQVTELSRVQELERALARATQEHTELMEQYKGISRS HGEITEERDILSRQQGDHVARILELEDDIQTISEKVLTKVEVLD RLRDTVKALTREQEKLLGQLKEVQADKEQSEAEQVAQENHHL NLDLKFAKSWQEEQSAQAQRLKDKVAQMDTLGQAQQRVALEP LKEQLRGAQELAASSQKATLLGEELASAAAARDRTIAELHRSR LEVAEVNGKLAELGLHLKEEKQWSEKERAGLLQSVEAEKDKILK LSAEILRLKAVQEERTQNVFKTELAREKDSLVQLSESKREL TELRSALRVLQKEKEQLQEEKQELLEYMRKLEARLEKVADEKWN EDATTEDEAAVGLSCPAALTDSEDESPEDMRLHPMAFVSVETQ ASLLGLE
7091	186	1076	BGMLTREHRCGRSEEQELEPWSPKKARSGRWLRNGFKRKMEEF EEPADSGQSLVPVYIYSPEYVSMCDSLAKIPKRASMVHSLIEAY ALHKQMRIVKPKVASMEEMATFHTDAYLQHLQKVSQEGDDHDP SIEYGLGYDCPATEGIFDYAAAIGGATTAAQCLIDGMCKVAIN WSGWHHAKKDEASGFCYLNDAVLGILRLRRKFERILYVDLDLH HGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRY YSVNVPIQDGIQDEKYQICERYEPPAPNPGI
7092	522	809	KQGINEDQEESQKPRLGEGCEPISKRMKKLIKQKQWEEQREL KQKRKEKRKKLERQCCMEPNSDGHDRKVRVDVHSTRLII DCSFDXLM
7093	454	655	NFGVSGVELAQASVMRMSFVIAACQLVLGLLMTSLTESSTQNS ECPQLCVCEIRPWFTPQSTYREA
7094	2	508	FVRSMHVGVGFASSRRCVVDLSWNQSTISFFGWAGSEEPFSFYG DIIAPPLQDYGGIMAGLSDPWKKTLTYLTGGALLAAAYLLHE LLVIRKQKEIDSKDAIILHQFARPNNGVPSLSPFCLKMETYLRM ADLPYQNYFGGKLSAQGKMPWIEYNHEKVSGETEII
7095	1	411	IASSLPKMASLLQSDRVLYLVQGEKKVRAPLSQLYFCRYCSELR SLECVSHEVDSHYCPSCLENMPSAEAKLKNRCANCFDCPGCMH TLSTRATSISTQLPDDPAKTTMKKAYYLACGFCRWTSRDVGMAD KSVGE
7096	224	2067	ETRS LAVQEKPSQAGRRRSSRISFAGALFLTRFLLQELLNNFC SAMSPAPDAAPAPASISLFDLSADAPVFQGLSLVSHAPGEALAR APRTSCSGSGERESPERKLLQGPMDSIEKLFCSCTCDQTFQNHQE QREHYKLDWHRFNLKQRLKDKPLLSALDFEKQSSSTGDLSSISGS EDSDSASEEDLQTLDRERATFEKLSRPPGFYPHRVLFQNAQQGF LYAYRCVLGPHQDPPBEAEALLQNLQSKGPRDCVVLMAAGHFA GAIFQGREVVTHKTFHRYTVRAKRGTAQGLRDARGGSPSHSAGAN LRRYNEATLYKVDRLLAGPSWAKALEEAGTILLRAPRSGRSLF FGGKGAPLQRGDPLWDIPLATRRPTFQELQVLHKLTLTHVYE EDPREAVRLHSPQTHWKTVREERKKPTEEEIRKICRDEKEALGO NEESPQKQSGSEGEDGFQVELELVLTGTLDLCESEVLPKRRR RKRKKEKSRDQEGAGHRTLLQQTQEEEPSTQSSQAVAPLGPL LDEAKAPGQPELWNALLAACRAGDVGVKLQLAPSPADPRVLSL LSAPLGSGGFTLLHAAAAGRGSVVRLLEAGADPTVQCQDH
7097	256	1228	IRTKSAATWEAWPQCGREGSRIITEPCANAGSRQELQTERISS FLAAQGDQAFHSGLETTNNSENSEPLRVGLKVAQGSPLMGQVSA

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			SNFSRLHCRNANEDWMSALCPRLNDVPLHHLSTPGSHDTMTYC LNKKSPISEHERSRLQLLNKALPCITRPVVLKWSVTQALDVTEQ LDAGVRYLDLRIAHMLEGSEKNLHFVHMVYTTALVEDTLTEISE WLERHPREVVLICARNFEGLSDELHEYLVAICKNIFGDMLCPRG EVPTRLRQLWSRGQQVIVSYEDSSLRHHELNPGVPYWWGNRVK TEALIRYLETMKSCGR
7098	82	956	SSFLKRCRKVLGCWGFSEQSLFSTLEBPRDEIDNYCVMRLQT EARSQFWAPNRPVNICRMTAVDGRGSSRETCRCHFHPSPLEA LVLLQDWQPGGVGICTSFLGISWALLDYHRAIRTCPLSKPLLG LGSSVIYFLWNLILLWPRVLAVALFSAFFPSYVALHFLGLWLVL LLWVWLQGTDFMPDPSSSEWLYRVTVATILYFWSFVNAEGTRGR AIIHFAFLSDSILLVATWVTHSSSWLPSGIPQLWLFPVGGCGCF LGALRLVYVHWLHPSCCWKPDQVD
7099	992	210	LFRLAPGFLRLSLARQGYHQIWAFFFLPSGATATWPAASRSRLA ARSLPRSPARPGPNDALEGEHDFRGQGVRAQRFRFSEEPGPGAD GAVLEVHVPIGAGVSLPGILAAKCGAEVILSDSSELPHCLEVC RQSCQMNNLPHLQVGLTWGHISWDLALPPQDIILASDVFFEP EDFEDILATYIFLMHKNPKVQLWSTYQVRSADWSLEALLYKWD KCVHIPLESDADKEDIAESTLPGRHTVEMLVISFAKDSL
7100	205	671	ANGGFWEAAGSEVSLPLWVPTASHSKTTALGIGSAPPHLSVL FLFSFPQLGDPLEAFVFKKYDRNGLNVSIECKRVSGLEPATV DWAFLDTKTNMQTYEQSEWGWKREKREEMTDRAWYLIAWEN SSVPAFASHFRFDVERGDEVLYW
7101	2	503	WRGGPRRAKRLAGGAVGWVLLVRGVHVSVRAGGRPPRAADMKKD VRILLVGEPRVGKTSLIMSLVSEEPPEVPPRAEITIPADVTP ERVPTHTVDYSEAEQSDQLHQEISQANVICIVAVNNKHSIDK VTSRWIPLINERTDKDSRLPLILGKNKSDLVEYSR
7102	2	503	WRGGPRRAKRLAGGAVGWVLLVRGVHVSVRAGGRPPRAADMKKD VRILLVGEPRVGKTSLIMSLVSEEPPEVPPRAEITIPADVTP ERVPTHTVDYSEAEQSDQLHQEISQANVICIVAVNNKHSIDK VTSRWIPLINERTDKDSRLPLILGKNKSDLVEYSR
7103	119	438	GSQSSVAVNIRSGTDEESMDLMNGQASSVNIATASEKSSSES LSDKGSSELKKSFDVAVFDVLKVTPEEYAGQITLMDVPVFKAIQ DELSSCGWNKKEKYSSAP
7104	1670	795	RLWEHRSVSAGASGWGLSSPGCLLLHPSLPPEERVDILINNAGV MRCPHWTTEDGFEMQFGVNLGEAWAGAAPWVQAILPRPPKVL GF*V*VKSDLFIILNPGHFLTNLLLDKLKASAPSRIINLSSLA HVAGHIDFDLWQTRKYNTKAAYCQS\KLAIVLFTKELSRRLQ GSGVTVNALHPGVARTELGRHTGIHGSTFLQHHN\WAILLAWS KSPRSWPAPAQHNTLAVAEELA\VISGKYFDGLKQKAPAEAD EEVARRLWAESARLVGLEAPSVREQPLPR
7105	765	143	GQMCRRPSPKSTSCLSMTCDLP/RGLQDPQCLALFRVAVDKHQA LLKAAMSGQGVDRHLFALYIVSRFLHLQSPFLTQVHSEQWQLST SQIPVQOMHLFDVHNYPDYVSSGGGFGPADDHGYSYIFMGDG MITHISSKSSSTKTDSHRLGQHIEDALLDVASLPQAGQHFKRR FRGSGKENSRRHRCGFLSRQTGASKASMTSTDF
7106	14	1064	GLQAGHPHPRSASRIPEADTH\YSKLQRAFDSIVNKDHRMFGT YFRVGFSGSKFGDLDEQEFVYKEPAITKLPEISHRLEAFYGC GAEFVEVIKDSPTVDKTKLDPNKAYIQITFVEPYFDEYEMKDRV TYFEKNFNLRRFMYTTPFTLEGRPRGELHEQYRRNTVLTTHMAF PYIKTRISVIQKEEFVLTPIEVAIEDMKKTLQLAVAINQEPD AKMLQMLVQGSVGATVNGQPLEVAQVFLAEIPADPKLYRHHNKL RLCFKEFIMRCGEAVEKNKRLITADQREYQQLKKNYKLBENL RPMIERKIPELYKPIFRVESQKRDSFHRSSFRKCBETQLSQGS
7107	1145	591	*I*WLQTKKK

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7108	1	942	VKVALLLTNLEQPRTESEWENSFTLKMFLQFVNLSSTFYIAF FLGRFTGHPGAYLRLINRWLEECPSGCLIDLQCMQGIIMVLK QTWNNFMELGYPLIQNWTRRKVRQEHGPERKISFPQWEKDYNL QPMNAYGLFDEYLEMILQFGFTTIFVAAPLAPLLALLNNIIBI RLDAYKFVTQWRPLASRAKDIGIWIYGILEGIGILSVITNAFVI AITSDFIPRLVYAYKYGPACAGQGEAGQKCMGVYNASLSVFRIS DFENRSEPESDGSEFSGTPLKYCRYDRDPPHSLVPYGYTLQF WHVLAW
7109	964	102	WDQRKNSLVPGPAGHPAQEEPEWKKESLGAQAQALSIQLQPK TQFPFKSEQVYLHFLSVVTEDEGPEPKDKGSLPQPPITEVESQVF SEKLATDTSTFEATSEGTLELQQRNPKAERLRWSPAQESFRQM VVIHKEIPTGKKDHECSECGKTFIYNHLVHVHVSHEKPYKC SDCGKTFKQSSNLGQHQRHTGKPFECNECGKAFRWGAHLVQH QRIHSGEKPYECNECGKAFSQSSYLSQHRRHSHSGEKPFICKECG KAYGWCSELIRHRRVHARKEPSH
7110	96	697	RLDNFSGFLVEVTKEERHIVKPLYDRYRLVKQMLTRASITPVIG SPSTKRRGQMLQPIIEGETAHFEEIKKEEEDGVNLSSELGDM KTAVQVQSSLNKSESDVEENQEKALDLRLSSRAASMPLELEQ LWKARAEKKLRKTLREFEEAFYQONGRANQKEDRVPVLEEYRE YKKIKAKLRLLLEVLISKODSSKSI
7111	2	414	GSGLYRGPTFGGQCIWKPNMFPDHERNFQFTQFALEINELTAE LKRSLPSTITRLRPDQRYLEGNIAAEAKRRIEQLORDRRKV MEENNIHVQARFFRRQTDSSGKEWVNTNTYWRRLRAEPGYGNMD GAVLW
7112	103	495	PRCFPVADRGRIGGLPDVVTIMEGKTLNLTCTVFGNPDPEVIW FKNDQDIQLSEHFSVKVQAKYVSMITIKGVTSSEDSGKYSINIKN KYGGEKIDVTVSVYKHGEKIPDMAPPQAKPKLIPASASAAGQ
7113	1	824	KCLRQAWHEAPSSSLAFTRWCSREERAEGGGLNHRISITRDPKPPG LRPSQRPMDKKKKRSPKPCLAQPAQAPGTLRRVPVPTSHSGSL ALGLPHLSPKQRAKFRVKGKCRPVLAGGGSGSAGTPLQHSF LTEVTDVYEMEGGLNLLNDFHSGRLQAFGKECSFEQLEHVREM QEXLARLHFSLDVCGEEEDDEEEDGVTEGLPEEQKKTMDRNL DQLSLNLGSLGALVPGMRGGEGTYSQSHSWALGEKGVHGSK SSGPLNLPRR
7114	3	1492	VVEVDEQIDHYKESQDKFLWQAAFIGKETLKDESGOECKICRKI IYLNTDFVSVKQRLPKYYSWERCSEKHLNLFNGQNRSYVRKKDDG CKAYWKVCLHYNLHKAQPAERFFDPNQRGKALHQKQALRKSQRS QTGEKLYKCTECGKVFIQKANLVVHQRTHTGKPYECCECAKAF SQKSTLIAHQRTHTGKPYECSECGKTFIQKSTLIKHQRTHTG KPFVCDKCPKAPKSSYHLIRHEKTHIRQAFYKGIKCTSSLIYQ RIHTSEKPCSEHGKASDEKPSPTKHWRTHTKENIYECSEKCGKS FRGKSHLSVHQRHTGKPYECSCIGKTFSGKSHLSVHHRHTG EKPYBCRRCGKAFGEKSTLIVHQRMTGKPYKNECGKAFSEK SPLIKHQRIHTGERPYECTDCKKAFSRKSTLIKHQRIHTGKPY KCECGKAFSVKSTLIVHHRHTGKPYECRDCGKAFSGKSTLI KHQRSHTGDKNL
7115	1	947	NAAHGYNGLWCMYIIPQDWLDRGDESAPITPAMIGCSFVVD REYFGDIGLLDPGMEVYGGENVKLGMRVWQCGGSMEVLPCSRVA HIERTRPYNNDIDYAKRNALRAAEVWMDDFKSHVYMAWNIPM SNPGVDFGDVSERLALRQLKCRSFKWYLENVYPMRVYNNLT YGEVRNSKASAYCLDQGAEDGDRAILYPCGMSSQLVRYADGL LQLGPLGSTAFLPDSKCLVDDGTGRMPTLKKCEDVARPTQRLWD FTQSGPIVSRATGRCLLEVMSKDANFGLRLVVQRCGQKWMIRN WIKHARH
7116	866	95	RVMRRNAEVIIEKLMSKSWAKFRPGEPWKGYPNIDPETDPYVT PGSVINNLINTVREVDHLDRNSGSSSLNTTLESTSAWSSIR

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			ASNYNVPLSSTAQSTSARNSDSKLTWSPGVSNTSLAHELWKVP LPPKNITAPSRPPPGLTGQKPLSTWDNSPLRIGGGWGNSDARY TPGSSWGBSSSGRITNWLVLKNTLPQIDGSTRILCMQHGPLIT PHLNLPHGNALVRYSSKEEVVKAQKSLHISDLFLLTL
7117	695	1261	LLISTPGGCHPPFSSIEFTYTGAWGKALPAPHMPCAPGALPQGA FVSQAARAIPLLQPSQAAQAEGLSQPARACGALCSLPWPLRNWG SPIRLRPGGLRTPTNDRKTRTSAMACWARAQWDTLGLPLKLSHR GKVCRLHPRPTGVRGGPGAAGRQGGMGTRRRRTFTSGARDPGGL RVKHRCQPTGHL
7118	49	1863	PHCEPNPGAGAMVLLHVLFEHAVGYALLALKEVEEISLLQPQVE ESVLNLGKFHISIVRLVAFPCFPASSQVALENANAVSEGVVHEDLR LLETHLPSKSKKVLGVGDPKIGAAIQEELGYNCQTGGVIAEI LRGVRLHFHNLVKGLTDL SACKAQLGLGHSYSRAKVKFNVRVD NMIIQSISLLDQLDKDINTFSMRVREWYGYHFPPELVKIINDNAT YCRLAQFIGNRRELNEDKLEKEELTMDGAKAKAILDASRSSMG MDISALINIESFSSRVVSLSEYRQSLHTYLRSKMSQVAPSL ALIGEAVGARLIAHAGSLTNLAKYPASTVQILGAEKALFRALKT RGNTPKYGLIFHSTFIGRAAAKNKGRISRYLANKCSIASRIDCF SEVPTSVFGEKLRQVEERLSFYETGEIPRKNLDVMKEAMVQAE EAAAEITRKLEKQEKRLKKEKRLAALALASSENSSTPEECE EMSEKPKKKKKQKQEVPOENGMEPSISFSKPKKKKSFSKEEL MSSDLEETAGSTSIPKRKSTPKEETVNDPEEAGHRSGSKKKRK FSKEEPVSSGPEEAAGKSSSKKKKKFKHAKSQED
7119	49	1863	PHCEPNPGAGAMVLLHVLFEHAVGYALLALKEVEEISLLQPQVE ESVLNLGKFHISIVRLVAFPCFPASSQVALENANAVSEGVVHEDLR LLETHLPSKSKKVLGVGDPKIGAAIQEELGYNCQTGGVIAEI LRGVRLHFHNLVKGLTDL SACKAQLGLGHSYSRAKVKFNVRVD NMIIQSISLLDQLDKDINTFSMRVREWYGYHFPPELVKIINDNAT YCRLAQFIGNRRELNEDKLEKEELTMDGAKAKAILDASRSSMG MDISALINIESFSSRVVSLSEYRQSLHTYLRSKMSQVAPSL ALIGEAVGARLIAHAGSLTNLAKYPASTVQILGAEKALFRALKT RGNTPKYGLIFHSTFIGRAAAKNKGRISRYLANKCSIASRIDCF SEVPTSVFGEKLRQVEERLSFYETGEIPRKNLDVMKEAMVQAE EAAAEITRKLEKQEKRLKKEKRLAALALASSENSSTPEECE EMSEKPKKKKKQKQEVPOENGMEPSISFSKPKKKKSFSKEEL MSSDLEETAGSTSIPKRKSTPKEETVNDPEEAGHRSGSKKKRK FSKEEPVSSGPEEAAGKSSSKKKKKFKHAKSQED
7120	1991	64	QLGTRRCLRGDKVTNAMQDFLVNTLEPRFIEPQTANLSVVFKDS NSTTPLIFVLSPGTDPAADLYKFAEEMKFSKKLSAISLGQGGGP RAEAMMRSSI ERGKWVFFQNCPLAPSWMPALERLIEHINPDKVH RDFRLWLTSLPSNKFVVSILQNGSKMTIEPERGVANLLKSYSS LGEDFLNSCHKVMEFKSLLSLCLPHGNALERRKFGPLGFNIPY EFTDGLRICISQLKMFLEDDIPYKVLKYTAGIYNGGRVTD DWDRCIMNILEDFYNPDVLSPEHSYSASGIYHQIPPTYDLHG LSYIKSLPLNDMPFIFGLHDNANITFAQNETFALLGTIIQLQPK SSSAGSQGREEIVEDVTQNILLKVPEPINLQWVMKYPVLYEES MNTVLVQEVIRYNRLQVITQTLQDLLKALKGLVVMSSQLELMA ASLYNNTVPELWSAKAYPSLKPLSSWMDLLQRLDFLQAWIQDG IPAVFWISGFFFPQAFLTGTLQNFARKFVISIDTISDFKVMFE APSELTQRPQVGCYIHGLFLEGARWDPEAFQLAESQPKELYTEM AVIWLPTPNRKAQDQDFYLCPIYKTLTRAGTLSTGHSTNYVI AVEIPTHQQRHWIKRGVALICALDY
7121	2	546	RPLRPVWLSLGMVGLMTYGRROFQSLDTTMRRLIPPFREASAK LTLVDADAFAEFTAYLEAMRLPKNTPEEKDRRTAALQEGELRAV SVPLTLAETVASLWPALELARCGLACRSDQVAAKALEMGVF GAYFNVLINLRDITDEAFKDIHHRVSSLLQEAQTQAAVLVDCL

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7122	2	546	ETRQE RPLRPWVLSLGSMVGLMTYGRRQFQSLDTTMRRLIPPFREASAK LTTLVADAEAFAYLEAMRLPKNTPEEKDRRTAALQEGLRRAV SVPLTLAETVASLWPALELARCGLACRSDLQVAAKALEMGVF GAYFNVLINLRDITDEAFKQDIHHRVSSLLQEAQTAAALVLDCL ETRQE
7123	1	1092	KPAVPEARSAGTSEAGRSGAEVSCGVSVDGAAMRLTPRALCS AAQAAWRENFLPCGRDVARWFFGHMAKGLKKMQSSLLKLVDCIIE VHDARIPLSGRNPLFQETLGLKPHLLVLNKMADLADLTEQQKIMQ HLEGEGLKNVIFTNCVKDENVKQIIPMVTELGIRSHRVHRKENL BYCIMVIGVFNPKSSLSLNRQHLRKGKATRVGGEGITRAV MSKIQVSEPLMFLDTPGVLPAPRIEVSVEGLKLALCGTVLDHL VGETMADYLLYTLNKHQRFYVQHYGLGSACDNVERVLKSVAV KLGKTQKVVLTTGTGNVNIQPNYPAAARDFLQTFRRGLLSVM LDLDVLRGHPRV
7124	2	382	LPFTLLLAAPFAHLLPPGHQDQSPCHPGPALSPGTGLGFLSWAM ANSGLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDASIQLRS KVFVLESEWGGDSLGLPRDCGWSCLLHSAVRSEKGFWS
7125	166	1127	NCISEKRNYSFSMQKGRTRIRRRKLCSSSESRGVNESHKSE FIELRKLWKARKQDQSNLAPACFGTGRGLMSQTSLEGGQMIIS LPESCLLT\RDVIRSYLGAYITKWKPPPSPLALCTFLVSEKH AGHRSLLA\YLEILPKAYTCPVLEPEVVNLLPKSLKAKAEQ RAHVQEFFASSRDFSSSLQPLFAEAVDSIFSYSALLWAWCTVNT RAVYL\SPGSGNAFLQSRTPVQLAPYLDLLNHS PHVQVKAAPNE ETHSYEIRTTSRWRKHEEVFCYGPNDQRLFLEYGFVSVHNPH ACVYVSRGWNQLCS
7126	1	733	CRDMAAFIVPSPARRCSQKGSGLHLPTQFWLWAAWSPRGQERGT SHSQAREPQRPGRWLLGSLQSSPGTLGQAGTASRRRCQMVQRNV QVATGRRVAVQVPGALGLALGETSPGASRGMSGAGGCWALGWA PSDVLPSWLLGEGPPWLSIISDSGTQRPSPRRCPARSPWPQP WRGGRJASAEASST*TPGSGSRARSRRSPGSRRRSASAPSPTP PTDACA*SCVAPAGSRSSRPAAA
7127	1311	277	GLPAMCST*KAGYEEETEGDCIPKDR*IEKRPFKEI*RRIPRIF AKQKQI*S*NSQKIGASEIDRGRKEADCDAPAAARIGAVSVFR RSTQEARVSPRSNAKSANLRAVRAD*WEHFVLLFHTPEQFLAEC ICRST**K*WHQLC*PLSSL*TGLKRKLL*VLFRI*WLKDCDV *FCQKI*FATNFCNWQLIQ*EE*KPVEYSVEN*HIMNLLPM*L CQSSLRDQTIIVTRM*RNYSMFRINMISSL*DGSIHIPKLHFI PALIFTLTVPINSCCQRPPLFAHQSIKTASSGSPMLACLRLFL LVKKRAFIHTPRSPGCSV*CKHVLVKDNKNNCVGSSEV
7128	2	5228	GRVDLWTLILGRSALRELSQIEAELNKHWRRLLEGLSYKPPSP SSAEKVKANKDVASPLKELGLRISKFLGLDEEQSVQLQCYLQE DYRGTRDSVKTVLQDERQSALILKIADYYEERTCILRCVLHL LTYFQDERHPYRVEYADCVDKLEKELVSKYRQCFEELYKTRAPT WETHGNLMTERRQVSRWFQCLREQSMLEIIFLYYAYFEMAPSD LLVLTKMFKEQGFSGSRQTNRLHVDETMDPFVDRIGYFSALILVE GMDIESLHKCALDDRELHQFAQDGLICQDMDCMLTFGDIPIH APVLLAWALLRHTLNPEETSSVVRKIGGTAIQNLVQYLTRELQ SLASGGNDCTTSTACMCVYGLLSFVLTSLELHNLGNQDIIIDTA CEVLADPSLELFWGTEPTSLGIIILDSVCGMFPPLLSPLQLL RALVSGKSTAKKVYSFLDKMSFYNELYKHKPHDVISHEDGTLWR RQTPKLLYPLGGQTNLRIPQGTVGQVMLDDRAYLVRWEYSYSSW TLFTCEIEMLLHVSTADVIHQCRQVKPIIDLHVHVIISDLSIA DCLLPITSRIYMLLQRLTTVISPVDVIAVCNCLTVLAARNPA KVTWDLRHTGFLPFVVAHPVSSLSQMSISAEGMNAGGYGNLMMNSE QPQGEYGVITIAFLRLITTLVKGQLGSTQSQGLVPCVMFVLKEML

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			<p>PSYHKWRYNSHGVREQIGCLILELIHAILNLCHETDLHSSHTPS</p> <p>LQFLCICSLAYTEAGQTVINIMIGVDTIDMVMAAQPRSDGAEG</p> <p>QGQGGQLLIKTVKLAFSVTNVIRLKPPSNVVSPLQALSQHGAG</p> <p>GNNLIAVLAKYIYHKHDPALPRLAIQLLKRLATVAPMSVYACL</p> <p>NDAAIRDAFLTRLQSK\IE\DMRIK\VMIL\EFLTVA\ETQP</p> <p>GLIELFLNLEVKDG\SDGSKEFSLGMW\SCLHAV/VWELIDSQ</p> <p>QDRYWCPLHRAAIAFLHALWQDRDSAMLVLRTPKPFWENLT</p> <p>SPLFGTSLSPSETSEPSILETCALIMKII CLEIYYVVKGSLDQP</p> <p>LKDTLKKSFIKRFAYWSGYVKS LAVHVAETEGSSCTSLLEYQM</p> <p>LVSARWMLLIATTHADIMHLTDSVVRRLFLDVLDTGKALLV</p> <p>PASVNCRLGSMKCTLLILLRQWKRELGSVDEILGPLETELEG</p> <p>VLQADQQLMEKTKAKVFSAFITVLQMKEMKVS DIPQYSQVLNV</p> <p>CETLQEEVIALFDQTRHSLALGSATEDKDSMETDDCSRSRHRDQ</p> <p>RDGVCVLGLHLAKELCEVDEDDGSWLQVTRRLPILPTLLTTEV</p> <p>SLRMKQNLHFTTEATLHLLLTARTQQGATAVAGAGITQSI CLEP</p> <p>LSVYQLSTNGTAQTPSARSKSLDAPSWPGVYRLSMLMEQLLKT</p> <p>LRYNFLPEALDFVGVHQTFLQCLNAVTVQSLACLEEDHTVG</p> <p>FILQLSNFMKEWHFHLPLQMRDIQVNLGYLCOACTSFLHSRKM</p> <p>QHYLQNKNGDGLPSAV\AQRV\QRPPSAASAAPSSSKQPAADTE</p> <p>ASEQQALHTVQYGLLKILSKTLAALRHFTPDVCQILLDQSLDLA</p> <p>EYNFLFALSFTTPTFDSVAFSGFTLLATVVALNMLGELDKKK</p> <p>EPLTQAVGLSTQAEGRTRTLKSLMFTMENC FYLLISQAMRYLRD</p> <p>PAVHPDKQRMKQELSSSELSTLLSSLSRYFRRGAPSSPATGVLP</p> <p>SPQGKSTLSKASPESQEPLIQLVQAFVRHMQR</p>
7129	1	1054	<p>FRFRFRWRRLH*AGPASSAGGSPGEASGTMSEGLPPNINIKPR</p> <p>WDQSTF IGRANHFFTVTDPRNILLTNEQLESARKIVHDYRQGI</p> <p>PPGLTENELWRAKYIYDSAFHPDTGEKMLIGRMSAQVPMNMTI</p> <p>TGCMMTFFYRTTPAVLFWQWINSFNAVNYTNRSGDAPLTVNEL</p> <p>GTAVVSATTGAVATAGLNLTKHVSPLIGRFVFPFAAVAAANCI</p> <p>NIPLMRQRELKVGIPVTDENGRLGESANAQAQAITQVVVSRI</p> <p>MAAPGMAIPFFIMNTLEKKAFLKRFPPWMSAPIQVGLVGFCLVFA</p> <p>TPLCCALFPQKSSMSVTSLEAELQAKIQESHPELRRVYFNKGL</p>
7130	2	780	<p>HEVPSLQTSDDLPGSVQRCVSVVSQPNKENWCQDHLNLSGRKG</p> <p>ISAKSQPYHRSQSSSVLINSKMSDINYPSPDVGGQQLLSLHRS</p> <p>RCESHQDLLPDADSHQGGTEKLSDLTLQDSQKVVVVNRNPLN</p> <p>AQIATQNYFSNFKETDGEDDYVEIKSEDESELELSHNRRKS</p> <p>DSKFVDADFSDNVCSGNTLHSLNSPRTPKKPVNSKLGLSPYLT</p> <p>YNDSKLNLDYLWRGSPNQONIVQSLREKFQCLSSSSFA</p>
7131	805	573	<p>AAAEGHIEVVKFLIEACKVNPFAKDRWGNIPLDDAVQFNHLEV</p> <p>KLQDYQDSYTLSETQAEAAAEALS KENLESMV</p>
7132	1420	1087	<p>IDMLLSGALVSGPYTLITTAVSADLGTHKSLKGNALHSTVTA</p> <p>IIDGTGSVGAALGPLLAGLLSPSGWSNVFYMLMFADACALLFLI</p> <p>RLIHKELSCPGSATGDQVPFKEQ</p>
7133	2	3648	<p>QQIPGLLPAHGESGDALRKPRLQKPITGHLLDDFFTLYPSLEKF</p> <p>BEELLEHLVQDHFQEGCGPLDGGALEILERRLRVGVHNGLGFVQ</p> <p>RPQVVVLVPMDVALTRSASF SRKVVSSSKTSSGSQALVLRSL</p> <p>RLPEMVGHFAFAVIFQLEYVSSPAGVDGNAASVTSLSNLACMH</p> <p>MVRWAVNPLLEADSGRVTLPQGGIQPNPSHCLVYKVPASMS</p> <p>SEEVQVESGTLRFQFSLGSEEHLDAPTEPVSGPKVERRPSRKP</p> <p>PTSPSSPPAPVPRVLAAPQNSPVGPGLSISQLAASPRSPQHCL</p> <p>ARPTSQPLPHGSQASPAQAEFPLEAGISHLEADLSQTSVLVETS</p> <p>IAEQQLQELPFTPLHAPIVVGQTQRSSAGQPSRASVLLQSSGFP</p> <p>EILDANKQPAEAVSATEPVTFNPQKEESDCLQSNEMVLQFLAFS</p> <p>RVAQDCRGTSWPKTVYFTFQFYRFPPATTPRLQLVQLDEAGQPS</p> <p>SGALHTHLLVPVSRDGTDFDAGSPGFLRYMVGPGFLKPGERRCPA</p> <p>RYLAVQTLQIDVWDGDSLLIGSAAVQMKHLLRQGRPAVQASHE</p>

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			LEVVA TEYEQDNM VVSGDMLGFGRVKPIGVH SVVKGR LHLTLAN VGHPC EQKVRGCSTLPFSR SRVISNDGASRFSGGSLTTGSSRR KHVVQAQKLADVDSELAAMLLTHARQGGKGPQDVSRSDATRRRK LERMSVRLQ EAGGDLGRRGTSVLAQQSVRTQHLRDLQVIAAYR ERTKAESIASLLSLAITTEHTLHATLGVAEFFEFVLKPNHNTQH TVTVEIDNPESVIVDSQEWDRDPKGAAGLHTPVEEDMFHLRGSL APQLYLRLPHETAHVFPKQSFPSAGQLAMVQASPGLSNEKGMDAV SPWKSSAVPTTKHAKVLFRA SGGKPIAVLCLTVELQPHVVDQVFR FYHPELSFLKKAIRLP PWHITFP GAPVGM LGEDPPVHVRCSDPNV ICETQNVGPGEPRI DFLKVASGPSPEIKDFV IYSDRWLATPT OTWQVYLHSLQRVDVSCVAGQLTRLSLVLRGTQTVRKVRFTSH PQELKTDPKGVFVLPFRGVQDLHVGVRLRAGSRFVHLNLDVD CHQLVASWLVLCCROPLISKAFEIMLAAGEGKG VNKRTITYTNP YPSRRTFHLHSDHPELLRFREDSFQVGGGTYTIGLQFAPSQRV GEEELIYINDHEDKN EAFCKVVIQ
7134	2115	1111	GGEFGSYPPHVGSLGTLDPHYVLLLEVHYDNPTYEEGLIDNSG LRLFYTMDIRKYDAGVIEAGLWVSLPHTIPPMPPEFQSEGHCTL ECLEAEALAEKPSGIHVFAVLLHAHLA GRGIRLRHFRKGKEMKL LAYDDDFDNFQEFQYLKEEQTILPGDNLITECR YNTKDRAMT WGGLSTRSEMCLSYLLYPRINLTRCASIPDIMEQLQFIGVKEI YRPVTTWPFIIKSPKQYKNLSFMDAMNFKWTKKEGLSFNKLVL SLPVNVRC SKTDNAEWSIQGMTALPPDIERPYKAEPLVCGTSS SSLHRDFSINLLVCLLLSCTLSKSL
7135	2	2072	FVPRVTPRSLSLQGP KGESVGSITQPLPSSYLIFRAAESDGR C WDALEALALRCSSLLRLGTCKPGRDGEPTSPDASPSLCLGPA SATVHPDQDLFPLNGSSLENDASF DKSERENPEESDTETQDHSR KTESGSDQSETPGAPVRRGTTYVEQVQBELGELGEASQVETVSE ENKSLMWTLKQLRPGMDLSRVLPFTFVLEPRSFNLKLSDDYYH ADLLSRAAVEEDAYS RMKLVLRWYLSGFYKKPKGIKKPYNPILG ETRCCWFHPQTD SRTFYIAEQVSHHPVSAPFVSNRKGDFCIS GSITAKSRFYGNLSALLDGKATLTFNLRAEDYTLTMPYAHCKG ILYGTMTLEGGKVITIEAKNNFQAQLEFKLPFFGGSTSINQI SGKITSGEEVLASLSGHWRD R VFIKEEGSGSSALFWTPSGEVRR QRLRQHTVPLEEQTELESERLWQHVTRAISKGDQHRATQEKFAL EEAQRQRARERQESLMPWKPQLFHLDPITQEWHYRYEDHSPWDP LKDIQFEQDGI LRTLQGEAVARQTTF LGSPPGRHRS GPDQRL RKASDQPSGHSQATESSGSTPESCELSDEEQDGFVPGGESPC PRCRKEARRLOALHEAILSIREAQQLHRHLSAMLSSTARAQA PTFGLLQSPRSWFLLCVFLACQLFINHILK
7136	2	418	DFVPSFRFP SGNTSQTWVLLRAATLEKEVAGLREKIHHLDDMLK SQQRKVRQMIEQLQNSKAVIQSKDATIQELKEKIAYLEAENLEM HDRMEHLIEKQISHGNFSTQARAKTENPGSIRISKPPSPKMPV IRVET
7137	2	466	WASGMSTVPGGSRHSLGIQVRGGWGV TGGEESLTVPVADTWQA GSFKVATQERNPQRAQMRLRRQKKG VVPFLGDFLTELQRLDSAI PDDL DGN TNKRSKEVRVLQEMQLLQVAMNYRLRPLEKFVITYFT RMEQLSDKESYKLSQLEPENP
7138	2	466	WASGMSTVPGGSRHSLGIQVRGGWGV TGGEESLTVPVADTWQA GSFKVATQERNPQRAQMRLRRQKKG VVPFLGDFLTELQRLDSAI PDDL DGN TNKRSKEVRVLQEMQLLQVAMNYRLRPLEKFVITYFT RMEQLSDKESYKLSQLEPENP
7139	1	357	SLRNSARGLKMAASAARGAAALRRRSINQPVAFVRRIPWTAASSQ LKEHFAQFGHVRRCILPFDKETGFHRLGWVQFSSEGLRNALQ QENHIIDGVKVQVHTRRPKLPQTSDDDEKDF
7140	1401	1957	RASSLQVLKANGGLIPSSFQQQHTGQYALEELFDLKVYDCFCFSF MNVSLKQLRPSQPWPRGKCRKTPGWEEARPKAQDLRGDLGKT

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			QAGPAEAHTRGPPRLPAATGCPHLPGLLSGISVDIDPTGLQSQ WTPKQDPPPLMFSEDYQKSLLQYHLGLDQKLKRYVVGELIWNF ADFTINQCG
7141	124	1073	LDSRCWLDMEDLEEDVRFIVDETLDGGLSPSDSREEEDITVL VTPEKPLRRGLSHRSDPNAVAPAPQGVRLSLGPLSPEKLEEILD EANRLAAQLEQCALQDRESAGEGLGPRRVKPSPRETFVLKDSF VRDLLPTVNSLTRSTPS/LKQPDASTPE***EGVSQSGPGYIWK EALQHEEGVTHLQSVPCIQKPSIFSS\SRSTPPVRGRAGPSGRA AASEETRAAKLRGAAAKSSCOLPISAI PRPASRMPLTSRSVPP GRGALPPDSLSTRKGLPRPSTAGHRVRESGKVPVSQRLNLPVM GATRSNLQPP
7142	658	839	LIFLMLHMLKMLSSVTLHIRAFLYWICLKPTSCLIFQNVNLNLL KK*SRVGVVVVMCRT/YSSDLQVGVIKPWLLGSDAAHDLDT LKKNKVTHILNVAYGVENAFSLDFTYKSIISLDLPETNLSYFP ECFEFIEAKRKDGCVVLVHCNA
7143	3	773	SLEMSSDGEPLSRMDSEDSISSTIMDV DSTISSGRSTPAMNNGQ GSTTSSSKNIAYNCCWDQCQACFNSSPDADHRSIHVDGQRRG VFVCLWKGCKVYNTPTSTSQSWLQRHMLTHSGDKPFKCVVGGCNA SFASQGGGLARHVP THFSQQNSSKVSSQPKAKEESPSKAGMNRK KLKNKRRRSLARPHDFFDAQTLDAIRHRAICFNLSAHIESLGKG HSVVFHSTVSILLFFQIKYKTLQKNISTIISKSLKI
7144	1	988	FRVNMQDGGPSPAHEHSAEESAGMEARFLGLPDAAGSSGPTPAR RCPAPRPAGVSYVIRDEVEKYNRNGVNALQLDPALNRLFTAGRD SIIRIWSVNHQKQDPYIASMEHHTDWNVDIVLCCNGKTLISASS DTTVKVVNAHKGFCMSTLRTHKDYVKALAYAKDKELVASAGLDR QIFLWDVNTLTALTASNNTVTTSLSGNKDSIYSLAMNQLGTII VSGSTEKVLRVWDPRCTCAKLMKLGHTDNVKALLNRDGTQCLS GSSDGTIRLWSLGGQRCIATYRVHDEGVWALQVNDAFTHVYSGG RDRKIYCTDLRNPDIRVLICE

TRADOC:1416260.1(%CSK011.DOC)

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO:1-1786 and 3573-5358, a mature protein coding portion of SEQ ID NO:1-1786 and 3573-5358, an active domain of SEQ ID NO:1-1786 and 3573-5358, and complementary sequences thereof.
2. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide hybridizes to the polynucleotide of claim 1 under stringent hybridization conditions.
3. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide has greater than about 90% sequence identity with the polynucleotide of claim 1.
4. The polynucleotide of claim 1 wherein said polynucleotide is DNA.
5. An isolated polynucleotide of claim 1 wherein said polynucleotide comprises the complementary sequences.
6. A vector comprising the polynucleotide of claim 1.
7. An expression vector comprising the polynucleotide of claim 1.
8. A host cell genetically engineered to comprise the polynucleotide of claim 1.
9. A host cell genetically engineered to comprise the polynucleotide of claim 1 operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cell.
10. An isolated polypeptide, wherein the polypeptide is selected from the group consisting of:

- (a) a polypeptide encoded by any one of the polynucleotides of claim 1; and
 - (b) a polypeptide encoded by a polynucleotide hybridizing under stringent conditions with any one of SEQ ID NO:1-1786 and 3573-5358.
11. A composition comprising the polypeptide of claim 10 and a carrier.
12. An antibody directed against the polypeptide of claim 10.
13. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- a) contacting the sample with a compound that binds to and forms a complex with the polynucleotide of claim 1 for a period sufficient to form the complex; and
 - b) detecting the complex, so that if a complex is detected, the polynucleotide of claim 1 is detected.
14. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to the polynucleotide of claim 1 under such conditions;
 - b) amplifying a product comprising at least a portion of the polynucleotide of claim 1; and
 - c) detecting said product and thereby the polynucleotide of claim 1 in the sample.
15. The method of claim 14, wherein the polynucleotide is an RNA molecule and the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.
16. A method for detecting the polypeptide of claim 10 in a sample, comprising:

a) contacting the sample with a compound that binds to and forms a complex with the polypeptide under conditions and for a period sufficient to form the complex; and

b) detecting formation of the complex, so that if a complex formation is detected, the polypeptide of claim 10 is detected.

17. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

a) contacting the compound with the polypeptide of claim 10 under conditions sufficient to form a polypeptide/compound complex; and

b) detecting the complex, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

18. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

a) contacting the compound with the polypeptide of claim 10, in a cell, under conditions sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene sequence in the cell; and

b) detecting the complex by detecting reporter gene sequence expression, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

19. A method of producing the polypeptide of claim 10, comprising,

a) culturing a host cell comprising a polynucleotide sequence selected from the group consisting of a polynucleotide sequence of SEQ ID NO:1-1786 and 3573-5358, a mature protein coding portion of SEQ ID NO:1-1786 and 3573-5358, an active domain of SEQ ID NO:1-1786 and 3573-5358, complementary sequences thereof and a polynucleotide sequence hybridizing under stringent conditions to SEQ ID NO:1-1786 and 3573-5358, under conditions sufficient to express the polypeptide in said cell; and

b) isolating the polypeptide from the cell culture or cells of step (a).

20. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of any one of the polypeptides SEQ ID NO:1787 -3572 and 5359-7144, the mature protein portion thereof, or the active domain thereof.
21. The polypeptide of claim 20 wherein the polypeptide is provided on a polypeptide array.
22. A collection of polynucleotides, wherein the collection comprising the sequence information of at least one of SEQ ID NO:1-1786 and 3573-5358.
23. The collection of claim 22, wherein the collection is provided on a nucleic acid array.
24. The collection of claim 23, wherein the array detects full-matches to any one of the polynucleotides in the collection.
25. The collection of claim 23, wherein the array detects mismatches to any one of the polynucleotides in the collection.
26. The collection of claim 22, wherein the collection is provided in a computer-readable format.
27. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.
28. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising an antibody that specifically binds to a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/34263

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/04; C12N 15/11, 15/63, 15/70, 15/82, 15/85; C07K 14/00
US CL : 536/23.1; 435/320.1, 455, 468, 530/300, 350

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 536/23.1; 435/320.1, 455, 468, 530/300, 350

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
MEDLINE, EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WAJIMA et al. The cDNA cloning and transient expression of an ovary-specific 17beta-hydroxysteroid dehydrogenase of chickens. Gene. 1999, Vol.233, pages 75-82	1-11, 13-16, and 19-26
A	US 5,175,095 A (MARTINEAU et al) 29 December 1992 (29.12.1992), see especially columns 3-18.	1-11, 13-16, and 19-26
A	Database PubMed, ID No. 2393392, FREUDENSTEIN et al. mRNA of bovine tissue inhibitor of metalloproteinase: sequence and expression in bovine ovarian tissue. Biochem. Biophys. Res. Commun. August 1990. Vol.171. No. 1. pages 250-256, see Abstract.	1-11, 13-16, and 19-26
A,P	Database PubMed, ID No. 10919256, HENNEBOLD et al. Ovary-selective genes I: the generation and characterization of an ovary-selective complementary deoxyribonucleic acid library. Endocrinology. August 2000. Vol.141. No.8. pages 2725-2734, see Abstract.	1-11, 13-16, and 19-26
A	Database PubMed, ID No. 2760883, BEIL et al. Synthesis of polypeptides by the cervix of the baboon (Papio anubis). J. Reprod. Fertil. July 1989. Vol.86. No.2. pages 535-544, see Abstract.	1-11, 13-16, and 19-26
A,P	Database PubMed, ID No. 10830289, HINSHELWOOD et al. A 278 bp region just upstream of the human CYP19 (aromatase) gene mediates ovary-specific expression in transgenic mice. Endocrinology. June 2000. Vol.141. No.6. pages 2050-2053, see Abstract.	1-11, 13-16, and 19-26

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

Date of mailing of the international search report

Name and mailing address of the ISA/US
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/34263

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
This includes 4 invention Groups and 3572 sequence species

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐
☐

- The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/34263

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid. Group I, claims 1-11, 13-16, and 19-26, drawn to nucleic acid molecules, vector molecules and host cells containing said nucleic acids, polypeptides, methods of making said polypeptides and method of detection using said nucleic acids and polypeptides. Group II, claim 12 and 28, drawn to antibodies and method of treatment using composition comprising said antibodies. Group III, claims 17-18, drawn to methods of identifying a binding partner to a polypeptides. Group IV, claim 27, drawn to method of treatment using composition comprising polypeptides.

The inventions listed as Groups I-IV do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I encompasses nucleic acids, polypeptides expressed thereby, vectors and host cells containing same, respectively, and methods of making as well as the first method of use of this subject matter. Groups II-V all are directed to different special technical features as summarized as follows: Group II is directed to an antibody and method of treatment using same, which antibody undergoes recognition and binding reactions wherein what is bound is different from what is bound by the compositions of Group I. For example, the polypeptides of Group I do not bind the polypeptides of Group I as the antibody of Group II does. Identification of binding partner and treatment are clearly different special technical features from detection. Group III is directed to the identification of a binding partner of a polypeptide, which is not identified in any of the other Groups and thus clearly contains its own special technical feature. Group IV is directed to treatment, which is a clearly different methods than the methods in the other Groups. Thus, in summary, each of Groups I-IV are directed to different special technical features and thus support this lack of unity.

Additionally, each of the claims is directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for more than one species to be searched, the appropriate additional search fees must be paid. The species are as follows: The claims include a series of polynucleotides and the polypeptides encoded thereby as represented by the sequences of SEQ ID Nos: 1-1786, and 3573-5358. Each of these polynucleotide sequences encodes a separate polypeptide and thus represent a separate gene. Therefore, each of these genes defines its own special technical feature. In summary, one species is a gene represented by one polynucleotide sequence and one polypeptide sequence encoded thereby.